YAMAHA

2005

Yamaha
Digital Home Theatre
Components

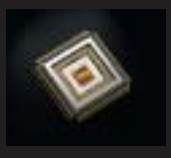
Natural Sound Audio Components

d-cinema
Yamaha takes cinema digital.

Image and Sound Quality Worthy of the Name "Home Theatre."

Dedicated to the Creation of Fine Sound for Over a Century.

Yamaha's involvement with sound began with the production of our first reed organ in 1887. Shortly thereafter, we began making pianos and other instruments, and today we are the world's largest producer of musical instruments. We also operate a worldwide music school, design concert halls and produce innovative electronic instruments. Our audio components have long been recognised as the standard bearers of fine quality, and with the development of Digital Sound Field Processing in 1986, we opened a new era in home entertainment. All of our acoustic and audio expertise is now engineered into LSIs that we design and manufacture ourselves, and these powerful chips are expanding and enhancing entertainment possibilities in the exciting new field of home theatre. Recently, we've also introduced state-of-the-art video components, and now offer everything necessary for the finest in music and movie enjoyment at home.



C O N T E N T S

4	Digital Sound Projector
6	MusicCAST
8	Plasma Display Monitors / Cinema Projectors
12	Digital Home Theatre Technology
18	Digital Home Theatre Receivers
26	DVD Players
28	Digital Home Theatre Speakers / Subwoofers
33	Home Theatre Packages
37	Slim-Line Components / CinemaStation
41	PianoCraft / HDD Recorder
42	Natural Sound Audio Components

Welcome to a World of Total Quality

Multi-Channel Surround Sound Enjoyment from A Single Component.

The YSP-1 is a genuine multi-channel home theatre system — all in one unit! A true breakthrough in audio technology, it delivers sound from the five front, surround and centre channels to listeners just as though they were surrounded by five speakers. It can be positioned in the front centre or corners of the room. The thin design is an elegant match for flat panel monitors and simplifies placement. And naturally, there is no need to find locations for multiple speakers or to run cables across the room. YSP-1: the elegant, all-in-one solution for home theatre sound.

YSP-1 Digital Sound Projector

Revolutionary Surround Sound

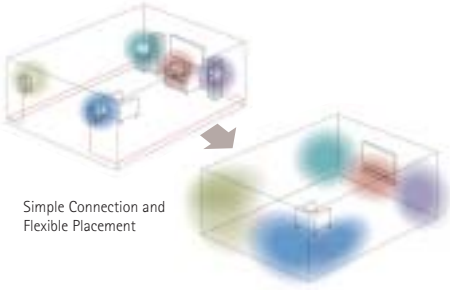
The Yamaha Digital Sound Projector YSP-1 is an exciting breakthrough in home theatre technology. Now you can get optimum multi-channel sound directivity to enjoy the full benefits of home theatre all from one easily installed component.

No more multiple speakers, no more clutter, no more hiding wires... just the pure excitement of bringing your movies and music to life.

The YSP-1 is designed to be an ideal, slim design match for your video display set. Although it is only one component, there are actually 40 speaker drivers inside that project precisely focused beams of sound aimed for optimum surround sound effect.

True Multi-Channel Sound

As amazing as it seems, the YSP-1 can actually deliver five channels of sound that surround listeners the same way that sound from five front, centre and surround speakers does. Hear it and you will believe it!



Simple Connection and Flexible Placement

Multi-Source Enjoyment

As a home theatre sound system, the YSP-1 will generally be used for movies on DVD, but it also brings greater enjoyment to digital audio, satellite TV, cable TV and other multi-channel sources. It has built-in decoders for Dolby Digital, DTS, Dolby Pro Logic II and DTS Neo:6.

DVD

Satellite TV

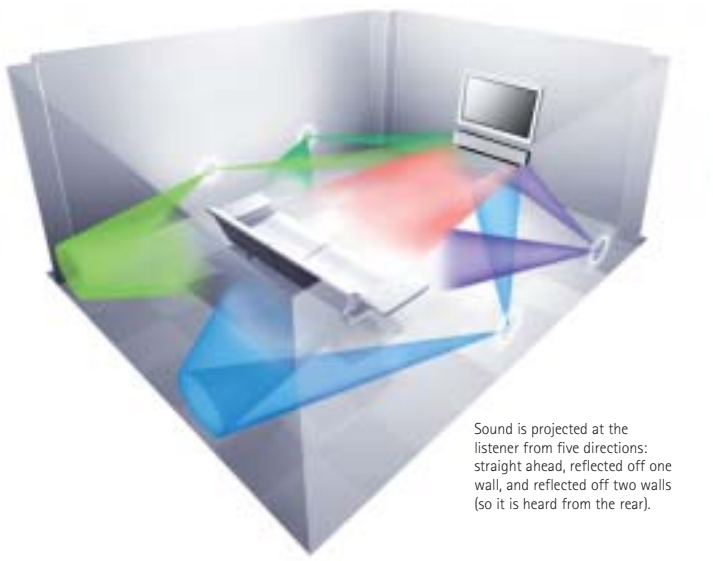
Cable TV

Thin Profile Designed to Match Flat Panel Displays

If you own or are planning to purchase a flat panel monitor, you probably wish you could also have thin speakers, rather than the usual boxes on the front and sides. The YSP-1 has a long, slim profile and nicely matches the styling of thin monitors.

Digital Sound Projection Technology

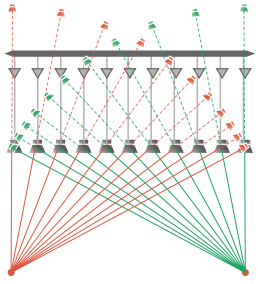
The YSP-1 applies sophisticated Digital Sound Projection Technology to precisely control the orientation of the sound by focusing it into beams. The result is true 5.1-channel surround sound without the need for extra speakers! With 42 digital amplifiers driving 40 4cm full-range drivers and two 11cm woofers, the Digital Sound Projector delivers 120W of total power with dynamic bass response.



Sound is projected at the listener from five directions: straight ahead, reflected off one wall, and reflected off two walls (so it is heard from the rear).

Precisely Focused Beams of Sound

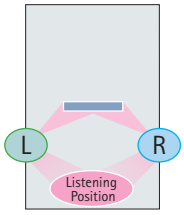
Although it is one component, there are actually 40 small drivers and 2 woofers inside. The delay time of each driver is controlled by a Digital Sound Processing circuit, enabling the system to project "beams" of sound which are precisely aimed for optimum surround sound effect. Naturally, high quality two-channel (stereo) sound can also be reproduced, as well as three-channel sound if desired.



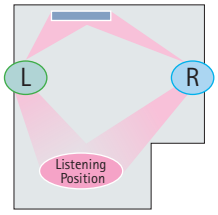
Multiple channels (two channels in the figure) are superimposed to create the sound. In a 5.1-channel configuration, the beam speakers together create the sound of 5.1 superimposed channels.

Precise Calibration Produces Accurate Multi-Channel Sound

You input a variety of parameters (once only) to obtain the correct surround sound field. First, you select room size (large, medium or small), room shape (square or rectangular) and speaker position (wall or corner). You can also make fine adjustments with precise distances from the listening position. Test tones are provided to adjust beam angles via the remote control for maximum surround effect. If you will be moving the YSP-1, there are three memory locations for storing different groups of settings.



Even if the YSP-1 cannot be positioned flat against the front wall (leaving "dead" space), the quality of the surround sound will not be affected.



If the room has an alcove or other irregularity, the settings can be adjusted to compensate, so the surround enjoyment can be assured.

Beam Mode Selection

Five-Beam: All five channels—L , R, C, Ls and Rs—are given separate orientations. Sound is beamed off the walls to create the effect of a surround system with rear speakers. **Stereo:** The left and right woofers, with the multiple beam speakers acting as tweeters, reproduce the effect of conventional stereo speakers. **Stereo + Three-Beam:** The L and R channels are produced using stereo mode while C, Ls and Rs are produced using beaming. This mode is effective when the YSP-1 placed in a corner. **Three-Beam:** Three beams are produced: L+ Ls, R+ Rs and C. A surround sound effect is created by reflecting the sound off the walls.

Five Beam Mode

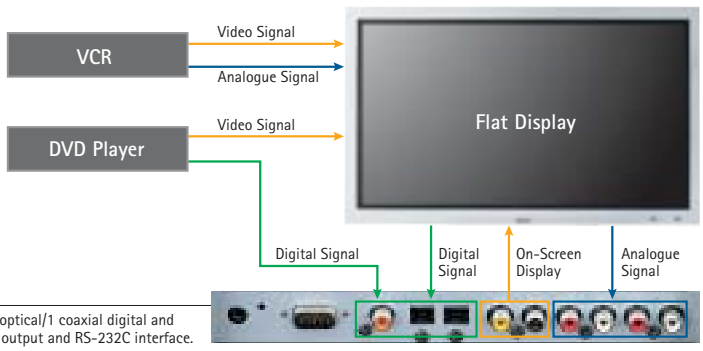
Stereo Mode

Stereo + Three Beam Mode

Three Beam Mode

Connection

with Display, VCR and DVD Player



YSP-1 Rear Panel

The YSP-1 rear panel offers 2 optical/1 coaxial digital and 2 analogue inputs, subwoofer output and RS-232C interface.

Main Specifications

- Speakers Section : 40 x 4cm beam drivers, 2 x 11cm woofers
- Digital Amplifier : 120 W total power: 40 x 2 W x 40 + 20 W x 2
- Dimensions (W x H x D): 1,030 x 194 x 118 mm
- Weight: 13 kg

Option

SPM-K1 Wall Hanging Bracket

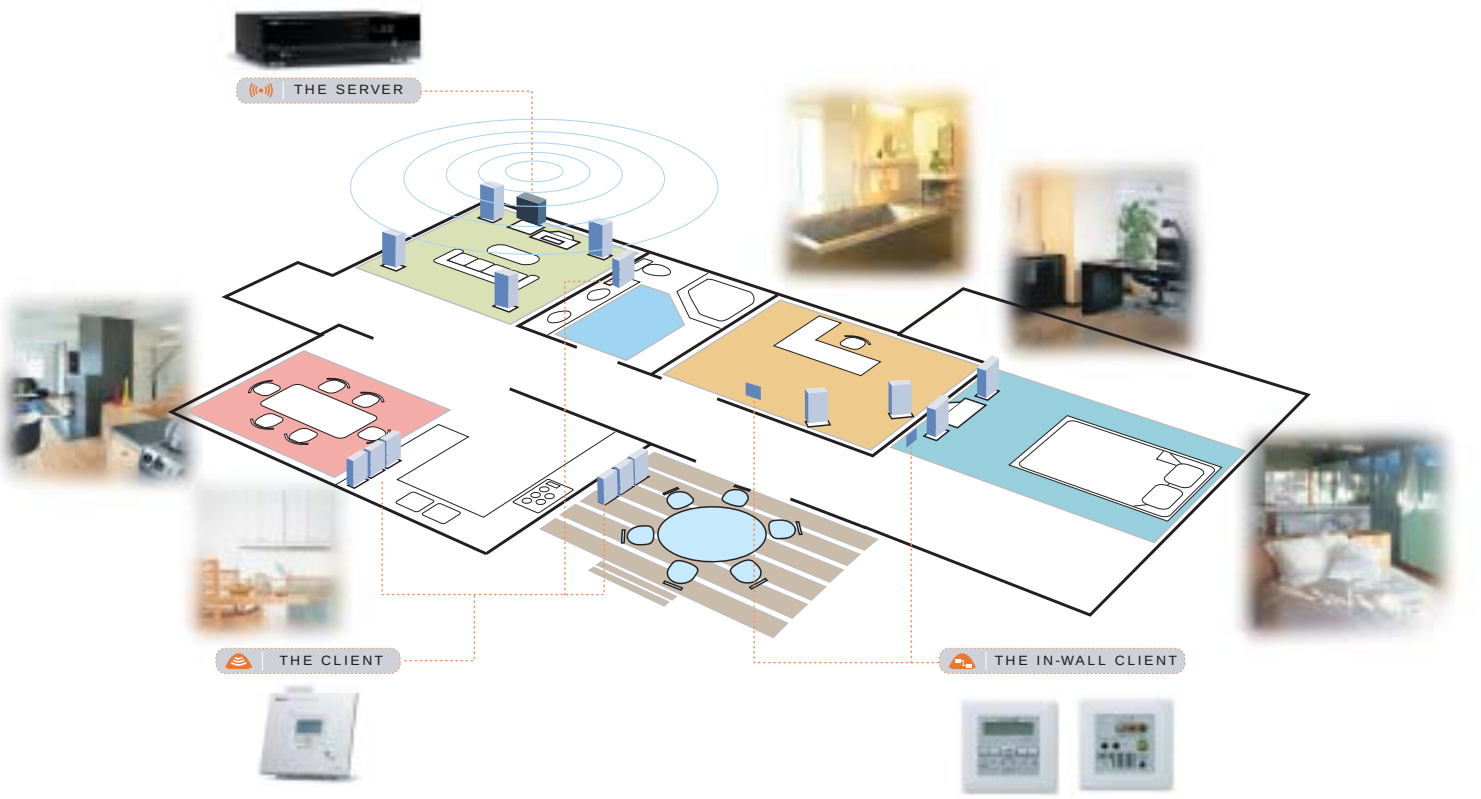
MusicCAST

Interactive Home Music Network System

Give Everyone in the Family Instant Access to Their Favourite Music in Their Own Room — or Anywhere Else in the House!

Finally! A multi-room home entertainment system that you can easily set up yourself. MusicCAST will store your entire family's favourite music on a high-capacity hard disk and let each person select and listen to their own music in any of eight different locations.

In addition to the normal portable Clients, MusicCAST is now also available with In-Wall Clients for custom installation. With outstanding convenience and new features, this system takes family music enjoyment to a whole new level.



THE SERVER

The MusicCAST server stores and broadcasts music content wirelessly to any location within your home.

MCX-1000 Digital Audio Server

■ Dimensions (W x H x D): 435 x 136 x 434 mm ■ Weight: 11.5 kg

THE CLIENT

Clients are used to retrieve music content stored on the MusicCAST server, for instant access to music in any location within your home.

MCX-A10 Digital Audio Terminal

■ Dimensions (W x H x D): 210 x 245 x 79 mm ■ Weight: 2 kg

High sound quality exclusive MusicCAST speaker system.

MCX-SP10 Optional Speaker System

■ Dimensions (W x H x D): 210 x 210 x 79 mm ■ Weight: 1.2 kg/unit

THE SERVER

MCX-1000

THE CLIENT

MCX-A10 / MCX-SP10

Wireless, Multi-Room, Multi-Selectable Music Library.

- **Simply wireless**: You can enjoy and control music in as many as eight locations: one Server and seven Clients (wireless plus wired).
- **Store 1000 hours of music**: A huge amount of music is at your fingertips. The hard disk stores up to 1,000 hours of music in MP3 format.
- **User friendly:** Operating the system is easy for everyone in the family. The Server has a GUI (graphical user interface) with on-screen menus and the Clients have large panel displays.
- **Multiple sources**: You can also enjoy music, etc. from other connected sources, such as digital radio, FM, LP or tape.

- **Create your own CDs**: You can even make your own CDs from playlists composed of songs you have selected, by using the built-in CD recorder. For extra-high sound quality, record CDs with the Advanced Audio Master Quality Recording function.
- **Use your amplifier / receiver**: You can control your Yamaha AV amplifier / receiver by connecting it via the RS-232C port to certain Yamaha amplifier / receivers.
- **Instant music information**: The built-in Gracenote CDDB® Music Recognition Service℠ features full on-screen display of information, such as artist, album, and track names along with music genre. The latest information is available via internet access.

gracenote cddb.

THE IN-WALL CLIENT

MCX-C15 / MCX-CA15

New MusicCAST Client System, MCX-C15 and MCX-CA15, Offers New Features and Enhanced Flexibility.

- **In-wall installation**: Great control within reach, yet out of the way...bring home the convenience of this intelligently integrated in-wall mountable MusicCAST Client into your living environment. With variety of installation configuration available, now every room is fully customisable to enjoy the benefits the MusicCAST music distribution system can provide.
- **Favourites selection**: The four Favourites buttons allow direct playback of various sources. Each can be assigned the following functions: playlist, analogue or digital inputs from Server, tuner presets, local Aux input from MCX-CA15. Favourite selections can be made even when the MCX-C15 is in sleep mode.

- **IR flasher support**: The MCX-C15 supports limited IR transmission functions for custom installation. IR signals from the MCX-C15 can be transmitted to the MCX-CA15 or the I/O Box, and can drive an IR flasher for remote control of other components. The function works on only 38kHz modulation frequency.
  ** IR flasher units are not available from Yamaha.*
- **Yamaha AV link**: The MCX-C15 can generate extended IR commands to control a Yamaha AV amplifier / receiver, if more power than the MCX-CA15 is desired. The following functions can be controlled via the MCX-C15 remote control: volume, input selection, tuner preset selection, sleep and standby modes.

RX-V2500

THE IN-WALL CLIENT

In-wall mountable, network ready Clients add versatility to the MusicCAST system with great new features such as Favourite Function buttons, IR Flasher Support and Yamaha AV Link.

MCX-C15 Distributed Audio Controller

- Dimensions (W x H x D): 120 x 120 x 106 mm

MCX-C15 Family

This multipurpose in-wall amplifier is perfectly matched to the MCX-C15 Client. It provides high quality power to speakers, as well as subwoofer and video OSD outputs.

MCX-CA15 Distributed Audio Amplifier

- Dimensions (W x H x D): 120 x 120 x 106 mm

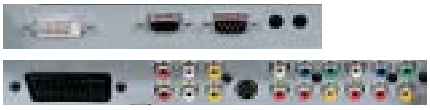
Plasma Display Monitors

PDM-5520 Plasma Display Monitor

SRS TruBass

NATURAL BLACK

The world's most advanced PDP technologies give the PDM-5520 performance capabilities unmatched by conventional plasma monitors.
• e-ALIS Method panel technology • Natural Black Drive System for 1,000:1 contrast ratio • High brightness: 1,000 cd/m² • High resolution: 1,366 x 768 pixels • Digital Linear Colour Control • Long life: 60,000 hours* • 1.07 billion colours • Two picture modes • Four white balance modes • Low power consumption • Side-by-side picture • Picture-in-picture • Multi-language on-screen display • 2 x 12W audio power • Timer functions • Five video and six PC size modes • RS-232C interface • Simple remote control unit
<Option> • PDS-355: Stand
** Until panel brightness reduced to 40%. Yamaha measurement.*



PDM-4210 Plasma Display Monitor

SRS TruBass

NATURAL BLACK

Delivers incredibly smooth, high-definition image quality for an exceptional home theatre viewing experience.
• ALIS Method panel technology • Natural Black Drive System for 1,000:1 contrast ratio • High brightness: 1,100 cd/m² • High resolution: 1,024 x 1,024 pixels • HDTV capability • Digital Linear Colour Control • Long life: 60,000 hours* • Two picture modes • Four white balance modes • Low power consumption • Side-by-side picture • Picture-in-picture • Multi-language on-screen display • 2 x 12W audio power • Five video and five PC size modes • RS-232C interface • Simple remote control unit
<Options> • PDS-242: Stand • PWK-242: Optional wall-hanging brackets
** Until panel brightness reduced to 40%. Yamaha measurement.*

Four Colour Variations

Yellow | Wine | Brown | Black

YWB-4210 Optional Wooden Bezel for PDM-4210

• Not available in some areas

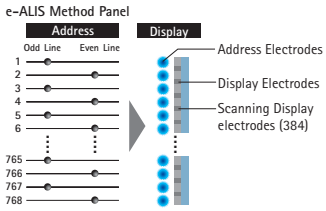
Plasma Display Monitors		PDM-5520	PDM-4210
Effective Display Area (H x V)		1,229 mm x 691 mm, 1,410 mm diagonal	922mm x 522mm, 1,060 mm diagonal
Aspect Ratio		16 : 9	16 : 9
Number of Pixels (H x V)		1,366 x 768 pixels (e-ALIS Method panel)	1,024 x 1,024 pixels (ALIS Method panel)
Pixel Pitch (H x V)		0.90 x 0.51 mm	0.90 x 0.51 mm
Transmission of Front Filter		Dark tint face 32%	Dark tint face 32%
Brightness	White Peak	Panel brightness : 1,000 cd/m²	Panel brightness : 1,100 cd/m²
Contrast Ratio (Panel)		1,000:1	1,000:1
Acceptable Input	YPbPr	480i/480p, 576i/576p, 720p (60), 1080i (50/60), 1035i (60)	480i/480p, 576i/576p, 720p, 1035i, 1080i
	RGB	VGA-UXGA, 1080i (50/60)	VGA, SVGA, XGA, SXGA, UXGA (compressed)
	Colour Format	PAL, SECAM, PAL60, NTSC4.43, NTSC3.58, PAL-M, PAL-N	NTSC, PAL, SECAM, PAL60, Modified NTSC
Wide Mode (Picture Size)		Video: 5 modes – Panoramic, Zoom, Cinema, Full, 4:3 PC: 6 modes – 4:3, Full, Real, Normal, Zoom1, Zoom2, Zoom3	TV/Video: 8 modes – Panoramic, Zoom, Cinema, Full, 4:3, 14:9L, 14:9Zoom, 14:9 (WSS available) PC: 6 modes – Full, Real, Normal, Zoom1, Zoom2, Zoom3
Power Consumption		520 W	365 W
Dimensions (W x H x D); Weight		1,394 x 857 x 105 mm; 63.5 kg (monitor only)	1,030 x 636 x 93 mm; 35.2 kg (monitor only)

The wide range of Yamaha features ensure that your viewing, listening and operating experience is the very best that it can be.

Yamaha Plasma Display Monitors use the most advanced technologies to deliver superb performance.

e-ALIS Method Panel Technology (PDM-5520)

The PDM-5520 uses a highly advanced e-ALIS Method (extended Alternate Lighting of Surface) panel whose pixels are defined electronically rather than physically, allowing each picture element to be smaller than normal. This creates a higher pixel count for a smoother, seamless picture. The panel employs new plasma gas and luminescent material that are more effective than previous types, and the area coated with the luminescent material is greater. This results in the industry's highest level of brightness, 1,000 cd/m², with the ability to display 1.07 billion colours for spectacular colour richness and purity.

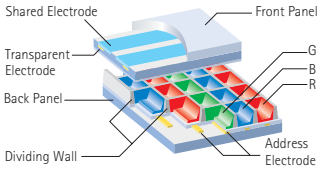


Displays 768 lines with 384 scanning electrodes

e-ALIS Method Panel Technology

The e-ALIS (extended ALIS) Method Panel technology was developed to enable the use of the ALIS Method on large screens. Adopting the shared electrode structure that is a special feature of ALIS on the front panel permits the display of highly detailed images of 768 lines with 384 electrodes. 1/60 second (1 field) is divided twice into odd number lines and even number lines to perform address, then emits all pixels. During the next 1/60 second, the same operation is done to display a 1/30 second image (1 frame).

e-ALIS Method Panel Structure

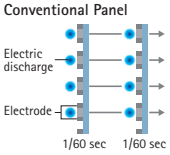


e-ALIS Method Panel Structure

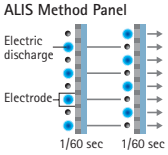
The back panel of the e-ALIS Method Panel has a lattice-shaped rib structure. Supplementing its high aperture rate by increasing the area coated with fluorescent materials results in higher brightness, achieving the industry's highest class of 1000cd/m² on a 55V high definition PDP.

ALIS Method Panel Technology (PDM-4210)

This plasma display panel uses an advanced ALIS (Alternate Lighting of Surface) Method to deliver a sharp, clear picture with the smooth, high-definition quality you see in a movie theatre. The ALIS Method employs a screen surface comprised of vertical channels of continuous phosphor material. The pixels are defined electronically rather than physically, allowing each picture element to be smaller than normal. This creates a higher pixel count for a smoother, seamless picture, with edges and curves clearly defined. The PDM-4210 uses the ALIS Method technology, which features new plasma gas and luminescent material that are more effective than previous types. The result is a brighter picture (1,100 cd/m²) and higher colour temperature, which makes white areas such as clouds in the sky stand out more vividly. The panel can also display a wider range of colours (16.7 million), with enhanced colour purity.



Two rows of phosphors emit light together.



Phosphor rows emit light alternatively, doubling the life of the panel.

Natural Black Drive System

The Natural Black Drive System automatically determines the brightness of the screen and applies the gray scale (contrast) best suited to the scene in order to reproduce both bright and dark areas with small details clearly visible. The contrast ratio is an outstanding 1,000:1, making it possible for the Yamaha Plasma Display Monitors to deliver sharp, natural-looking images.

The Natural Black Drive System allows the PDM-5520 and PDM-4210 to outperform other plasma displays with deeper blacks and sharper overall contrast.

Digital Linear Colour Control

Digital Linear Colour Control continually maintains the ideal balance between the three main colours (red, green, blue) for optimum colour reproduction in every scene from very dark to very bright. The sharpness and tint of each colour are independently controlled, so you can adjust tint more precisely.

Long Life of 60,000 Hours

Another benefit of the e-ALIS/ALIS Method Panel technologies are lower power consumption and longer panel life. The Yamaha Plasma Display Monitors will provide high quality images for 60,000 hours,* about twice as long as a typical CRT monitor.

* Until panel brightness reduced to 40%. Yamaha measurement.

Mode Selection for Best Picture Quality

The Yamaha Plasma Display Monitors offer several modes that allow you to adjust the picture to obtain maximum quality. There are two Picture modes (Day and Night), four White Balance modes (Normal, Cool, Warm, Black-White), and a Film mode for watching movies.

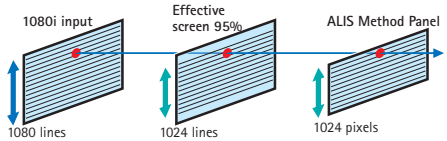
High Quality Sound

A digital amplifier supplies 12W + 12W of low-distortion stereo sound. SRS TruBass and Matrix Surround are provided, as well as four audio modes (Movie, Music, Speech, Favourite).

HDTV Capability (PDM-4210)

The PDM-4210 is fully HDTV capable, meaning that 1080i high definition images can be displayed line for line without vertical scaling. The 1,024 x 1,024 resolution provides a completely clean HDTV picture, with no noise at the edges.

True HDTV Picture Quality



1080i is the HD broadcasting standard. However, it uses overscanning, so the actual screen is 95%, or 1,024 lines. Therefore, the ALIS Method Panel with 1,024 pixels reproduces the true image, without noise at the edges.

Other Notable Features

- Side-by-Side Picture
- Picture-in-Picture
- Multi-language on-screen display
- Timer functions
- Five video and five PC size modes
- Simple remote control unit

Cinema Projectors

DPX-1200 Digital Cinema Projector

Incorporating the most advanced technology and numerous convenient functions, this projector offers the highest performance in its class.

• Yamaha Natural Black concept • 5,000:1 contrast ratio • Latest DMD 720P DarkChip3™ device • High resolution lens • Motorised iris control for higher contrast • 7-segment colour wheel • Faroudja TrueLife Enhancer • Natural colour adjustment system • Lamp power selector • Faroudja DCDi* processing • Silent operation • HDMI compatibility • Motorised vertical lens shift, iris, focus and zoom controls • One-line menu with graphical menu configuration <Accessories> • PJL-427: Optional lamp cartridge • PMT-L31: Optional installation brackets for low ceiling

** DCDi is not applicable to images from film sources.*

Control Panel

The previous DPX-1000 has been honoured with an EISA Award for High-End AV Product 2003-2004. The prestigious EISA Awards are chosen by media representatives from up to 20 European countries.

LPX-510 Home Cinema Projector

With the LPX-510, Yamaha makes it easy to enjoy widescreen movies at home with beautiful film-like picture quality.

• High contrast film-like picture quality with "Natural Black" • Latest 0.7" 720p liquid crystal panel • 720p HDTV format compatibility, 16:9 widescreen display • 3D Linear Colour Balance • Cinema Balance Filter • Motorised iris control • Vertical/horizontal lens shift • Faroudja DCDi* processing • Short focus lens with high power zoom • Yamaha Cinema Filter • 1.5x motorised zoom • 15° vertical keystone correction • Motorised focus control • 6 user preset memories • Smart Zoom for projecting 4:3 sports broadcasts onto a full 16:9 screen • Automatic aspect conversion • Six-step lamp power control • HDMI terminal • RS-232C interface and trigger out (12V/200mA) • Low-noise operation <Accessory> • PJL-520: Optional lamp cartridge

** DCDi is not applicable to images from film sources.*

Control Panel

Projectors		DPX-1200	LPX-510
Panel		0.8 inch DMD 720P DarkChip3™ x 1	0.7 inch HTPS TFT active matrix LCD x 3
Resolution		1,280 x 720 pixels	1,280 x 720 pixels
Brightness		800 ANSI lumens (iris off)	1,000 ANSI lumens (iris: off, Cinema Balance Filter: off) 350 ANSI lumens (iris: fully on, Cinema Balance Filter: on)
Contrast Ratio		5,000:1 (iris on)	1,200:1 (iris: 75%, Cinema Balance Filter: off) 1,000:1 (iris: 100%, Cinema Balance Filter: on)
Projection Lens		F=2.7 – 5.0, f=24.3 – 38.9 mm	F=2.06–2.79, f=21.4 mm–31.7 mm
Lamp		270 W SHP	200 W–150 W UHP lamp, 1,500 hours (200W continuous)
Acceptable Input	YPbPr	480i/480p, 576i/576p, 720p, 1035i, 1080i	480i/480p, 576i/576p, 720p, 1035i, 1080i
	RGB	VGA, SVGA, XGA	VGA, SVGA, XGA
	Colour Format	NTSC, PAL, SECAM, NTSC4.43, PAL60, PAL-M and PAL-N	NTSC, PAL, SECAM, NTSC4.43, PAL60, PAL-M and PAL-N
Power Consumption		375 W (standby: 0.1 W)	290 W (eco standby: 0.4 W)
Dimensions (W x H x D)		495 x 192.6 x 465.4 mm	450 x 119 x 345 mm
Weight		6.2 kg	6.2 kg

Yamaha Cinema Projectors include numerous advanced features that make watching movies extremely enjoyable and convenient.

DPX-1200: Advanced technologies deliver extraordinary performance.

"Natural Black" Concept

How a video system reproduces black and all its gradations is what determines contrast, and generally makes the difference between an image that is merely good and one that is sharp and richly detailed at every level of brightness. In quest of superior contrast performance, Yamaha developed the Natural Black concept, whereby various technologies, parts and functions combine to achieve truer, deeper levels of black than those of conventional home theatre projectors.

Black reproduction by DPX-1200 and conventional projectors.

Yamaha Natural Black makes subtle degrees of black in textures, shadows and so on stand out more clearly.

With other projectors, black contrast may be soft and fuzzy rather than sharp and clear.

Taking Projector Performance to a New Level

The DPX-1200 makes use of a wide range of new technologies to deliver extraordinary video performance. Contrast is an incredible 5,000:1, brightness is 800 ANSI lumens, picture sharpness is outstanding and colour reproduction is stunningly natural.

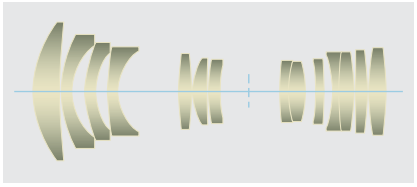
Newest Light Engine: 720P DarkChip3™

This DLP chip is Texas Instruments newest and most advanced Digital Micro Mirror Device. As the name implies, it provides deeper blacks and improved contrast in dark areas.

Latest 720P DarkChip3™ Device

High Resolution Lens

Yamaha has gone beyond the capabilities of other projectors with the use of a new high resolution lens that maintains resolution sensitivity to the edge of the lens. Four anomalous dispersion glass components, result in half the chromatic aberration while maintaining a short focal point and high zoom magnification.



Seven-Segment Colour Wheel

The DPX-1200 incorporates a seven-segment colour wheel, with an ND filter-equipped green segment, resulting in excellent colour reproduction. The seven-segment structure reduces dither, while colour reproduction is excellent, with greens being more true to life than ever (achieving the HD monitor "green" standard). Green resolution is 10-bit, which also improves the representation of black tones.

Seven-Segment Colour Wheel

Faroudja TruLife Enhancer

Picture clarity is excellent, with clean, sharp edges and details ensured by Faroudja's TruLife Enhancer.

Natural Colour Adjustment System

- **Colour Balance Control**

There are three Colour Balance modes. The first is the Standard mode and cannot be adjusted. The second is the RGB mode, which allows adjustment of the red, green and blue colours by specifying x and y values for each (yellow, cyan and magenta are derived from the three main colours). The third mode is RGBYCM, which allows each of the six colours to be directly specified by entering x and y coordinates. There are six memory presets for storing personal adjustments.

- **Colour Temperature Adjustment**

The correlated colour temperature can be adjusted in 500K increments between 5,000K and 10,000K, for achieving accurate colour fidelity. A graph on the colour temperature menu facilitates this operation. In order to maintain perfect colour balance when the settings are changed, automatic colour balance calculation/adjustment is provided.

- **Convenient Memory Functions**

There are six memory positions for storing different combinations of parameter settings, and each can be used for two input signals, making a total of 12 memory conditions. The user can store the same parameter combination for DVD and HDTV, for example. The DPX-1200 automatically adjusts when the source is changed, so the user does not have to select a different memory position.

LPX-510: "Natural Black" and advanced functions for enjoying widescreen movies.

High Performance LCD Panels

The LPX-510 uses LCD panels capable of projecting high resolution 720p HDTV images and 10-bit video processing gives it the ability to reproduce 1.07 billion colours. 16:9 aspect ratio compatibility means that widescreen movies can be viewed in their entirety.

3D Linear Colour Balance

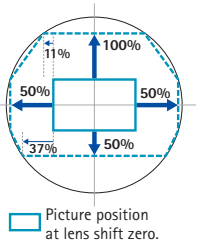
The 3D Linear Colour Balance function maintains the proper balance between the three signals from the LCD panels, adjusting colour irregularities through a range of 15,360 correction points for accurate colour in any type of scene.

3D Linear Colour Balance

No 3D Linear Colour Balance

Lens Shift, Motorised Iris and Zoom

Vertical and horizontal lens shift capability means that the projector does not have to be positioned directly in front of the screen. The motorised iris control can be used to improve contrast and focusing, and the motorised Zoom will expand the image up to 1.5 times.



Cinema Balance Filter

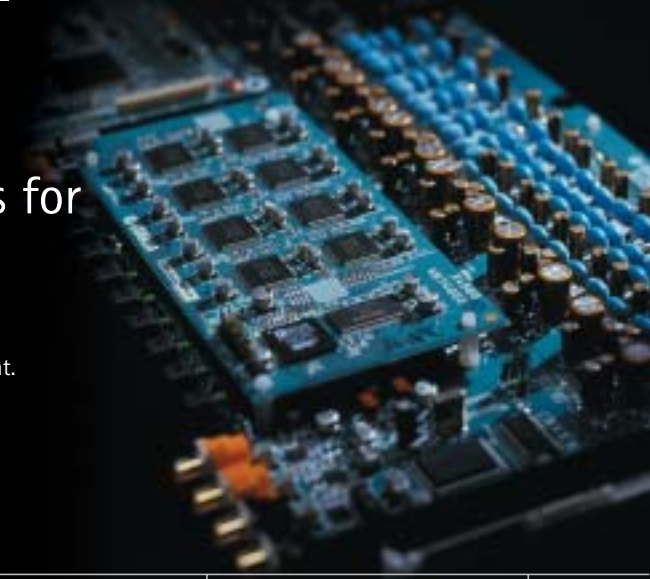
The LPX-510 introduces a new Cinema Balance Filter that enhances colour reproduction when viewing in a dark room, such as typically used for movies. It is an optical filter so dynamic range is not affected.

Other Convenient Functions

- DCDi processing
- Lamp power selector
- Six picture modes
- Smart Zoom for projecting 4:3 broadcasts onto a full 16:9 screen with no distortion in the middle
- Selectable video scan
- Six presettable memories
- DC12V (max) 200mA trigger out
- Operation status lock (zoom, focus and lens shift)

Yamaha presents advanced solutions for maximum home theatre enjoyment.

Yamaha has taken home theatre audio technologies to new levels of achievement.
Long world-renowned for our CINEMA DSP surround sound technology.
Here's a brief introduction to our major technologies.



Highest Sound Quality

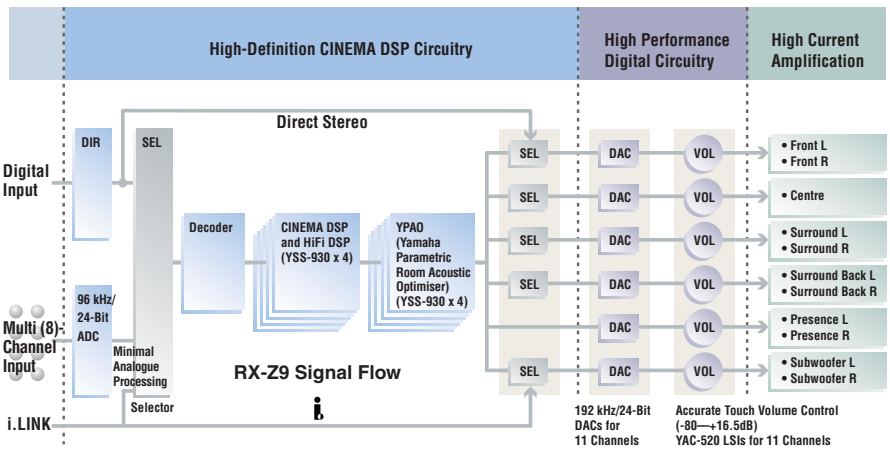
Yamaha has a genuine commitment to providing absolutely the finest sound quality possible in every component we create. With over a century of experience in sound production (we made our first reed organ in 1887) and our status as a world leader in acoustic and electronic musical instruments, we are passionate about creating and reproducing sound in the most beautiful and natural way. Over the years, with each new series of receivers, we have improved and refined audio performance, and Yamaha Digital Home Theatre Receivers maintain this tradition with an impressive array of technology and features.

Digital ToP-ART Concept

Digital ToP-ART (Total Purity Audio Reproduction Technology) is a Yamaha product development philosophy that combines advanced digital engineering and circuit design to maximise audio signal purity. It is used in three sections of the receiver, the High Performance Digital Circuitry and High Current Amplification (explained below) and the High Definition CINEMA DSP circuitry (explained on p.16), each of which employs the world's highest grade parts and most sophisticated LSIs. Digital ToP-ART enables Yamaha receivers to deliver superb sound quality and bring out the full potential of Yamaha's amazing CINEMA DSP technology.

High Performance Digital Circuitry (RX-Z9)

This section exemplifies the Digital ToP-ART concept of maximising the quality of the digital circuitry while minimising analogue circuitry, and also maintains a straight and logical circuit layout for optimum signal purity. It includes a variety of sophisticated technology, beginning with Burr-Brown 192kHz/24-bit digital-to-analogue converters for all channels with DSD (Direct Stream Digital) compatibility. Accurate-Touch Volume Control LSIs (Yamaha YAC520) are also used for all channels. The digital bass and treble tone controls have turnover frequencies for the front L/R and centre channels. Eight-channel analogue input signals are processed by 96kHz A/D conversion for highest quality. All circuitry is on a four-layer processing board in a fully shielded cabinet for reduced digital interference.

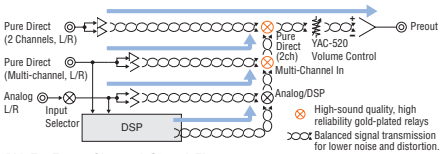


High Current Amplification

Although power rating is often the first thing people look at in a receiver, high power output does not necessarily mean good sound. High current level is a much more important factor, so Yamaha developed the High Current Amplification system, which overcomes two problems common to ordinary receivers. The first is a difference in voltage between the power supply and amplifier circuits caused by current fluctuations. This was solved by using custom-made, high-grade block electrolytic capacitors and a copper grip for one-point grounding. Another current drop is generally seen between the amplifier circuit and the speaker terminals, caused by the cables, speaker output relays, copper circuit boards, and so on. To avoid this problem, we used an extra-large, low-impedance toroidal transformer and gold-plated speaker relay contacts. As a result, Yamaha receivers achieve low impedance, high current power from input (power supply circuit) to output (speaker terminals). This drives the speakers much more smoothly and dynamically, for better sound from all sources, including 2-channel audio.

Choice of Signal Paths for Optimum Quality

Yamaha receivers give you a choice of specialised signal paths, ensuring that you can obtain the



RX-Z9 Front Channel Signal Flow

purest signal quality possible. Pure Direct provides the shortest possible signal path for two-channel or multichannel analogue inputs, with no signal processing and no display. Straight outputs the original analogue or digital signal without any post-processing. i.LINK provides a digital connection for DVD-Audio Linear PCM, Super Audio CD DSD (Direct Stream Digital) and other high quality audio sources. Direct provides a direct connection for analogue stereo/multichannel input and digital stereo/multichannel (via i.LINK) input, with a dimmed display.

Symmetrical Power Amplifier Circuitry (RX-Z9)

The High Current Amplification system uses a symmetrical, full push-pull circuit configuration with a complementary FET input stage. This ensures balanced output with no signal interference and highest slew rate (rate at which signal changes; affects high frequency response). Furthermore, the massive toroidal transformer and large capacity block electrolytic capacitors (28,000µF) ensure a consistently stable power supply.

Effective Linear Damping

Level variations due to high impedance tend to reduce an amplifier's damping factor (ability to control unwanted speaker cone movement at low frequencies), and frequency variations cause it to fluctuate. Yamaha's Linear Damping circuit cancels the effect of these variations, maintaining a high, stable damping factor for superior sound articulation and frequency response.

High Grade Construction with Independent Chambers and Anti-Vibration Design (RX-Z9)

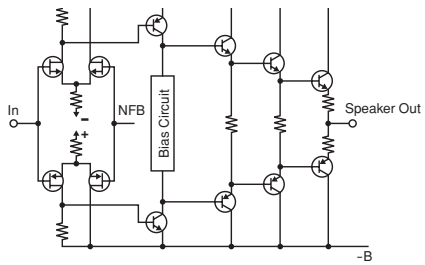
The RX-Z9 uses a heavy-duty, rigid chassis construction with separate individual chambers for left and right power amplifiers, power supply and control section to prevent any chance of interference. This thick chassis has electromagnetic shielding. The extremely large aluminium-extruded heat sinks have anti-resonance characteristics and ensure effective heat dissipation. Yamaha's ToP-ART base and feet provide stability and further vibration-damping. The other receivers use many of these same design features.

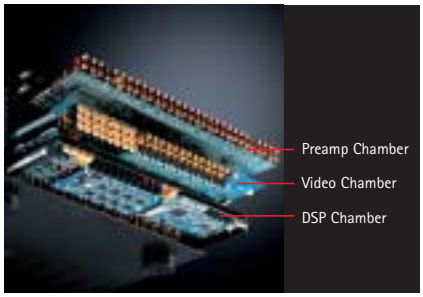
Only the Finest Parts are Used

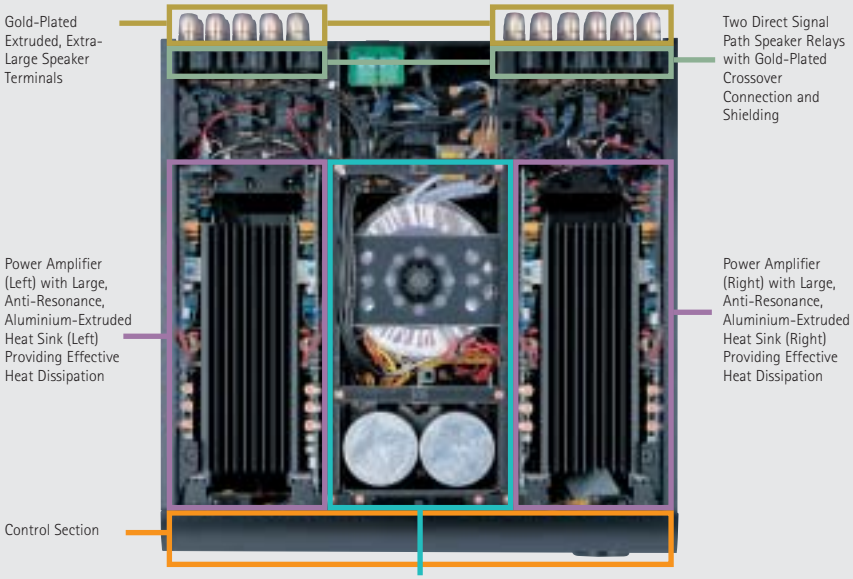
At this degree of extreme sound quality, each and every part in the receiver makes a difference. Yamaha technicians tested, selected and in many cases custom-designed all parts, and then tested them in groups to ensure that they sounded good together. Particularly noteworthy parts, in addition to the transformer and capacitors, include:

- Schottky Barrier diodes that allow fast switching for high S/N ratio (RX-Z9/RX-V2500).
- High performance FE Mica capacitors and Metric Mylar Film capacitors using polypropylene material.
- Thick PC board wiring with 1.6mm ϕ diameter copper jumper cables.
- Two direct signal path speaker relays with gold-plated crossover connections and shielding.

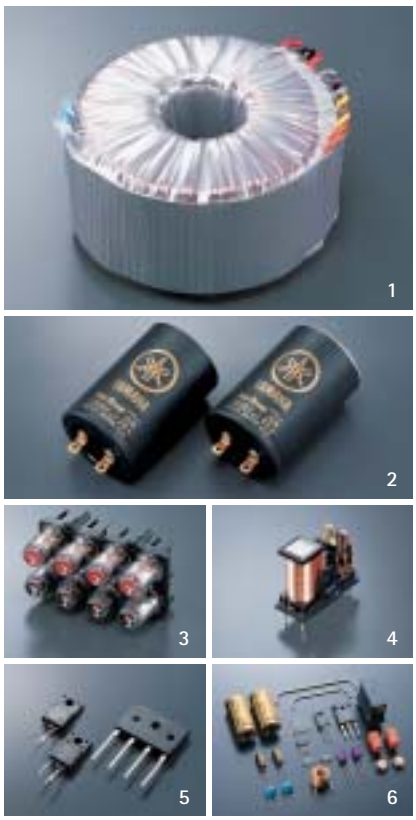
Basic Circuit Diagram






Gold-Plated Extruded, Extra-Large Speaker Terminals
Two Direct Signal Path Speaker Relays with Gold-Plated Crossover Connection and Shielding
Power Amplifier (Left) with Large, Anti-Resonance, Aluminium-Extruded Heat Sink (Left) Providing Effective Heat Dissipation
Power Amplifier (Right) with Large, Anti-Resonance, Aluminium-Extruded Heat Sink (Right) Providing Effective Heat Dissipation
Control Section

Power Supply Chamber with Extra-Large Toroidal Transformer and Extra-Large Custom-Made Block Electrolytic Capacitors (28,000µF)



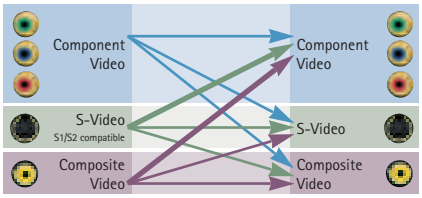
(1) Extra-Large Toroidal Transformer, (2) Extra-Large Custom-Made Block Electrolytic Capacitors (28,000 µF), (3) Gold-Plated Extruded, Extra-Large Speaker Terminals, (4) Two Direct Signal Path Speaker Relays, (5) High Sound Quality Schottky Barrier Diode and (6) High Quality Selected Parts (RX-Z9)

Highest Picture Quality

As one of the first companies to popularise "home theatre" and a leader in the field, Yamaha is naturally committed to visual as well as audio excellence. We want our customers' enjoyment of movies and other video sources to be totally satisfying. Our home theatre line includes a number of high performance products, including projectors, DVD players and a plasma monitor, but in terms of our home theatre receivers, we design them to deliver the finest possible video signal to the display component.

Component Video Up Conversion (RX-Z9, RX-V2500, RX-V1500, RX-V757, RX-V657 and RX-V557)

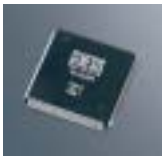
One way of ensuring the highest video quality for your home theatre system is to use the best possible video signal. The receiver automatically upgrades the input signal (composite to S-Video or component, S-Video to component) to the one that your monitor/TV can accept. This means that you simply use the best possible cable between the receiver and the monitor/TV, and then whatever the source is, you are assured of getting the highest possible quality.



Digital Video Up and Down Conversion (RX-Z9)

DCDi Processing (RX-Z9)

The RX-Z9 is the first receiver to offer Faroudja's DCDi Processing, which is selectable and ensures that images are smooth and natural, without staircasing or jaggies.

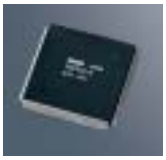

Faroudja DCDi processing LSI (FLI 2310)

Noise Shaped Video™ (RX-Z9)

This technology, from Analog Devices, uses oversampling and advanced techniques such as multi-bit sigma-delta processing and bit-shuffling to improve converter performance by moving converter noise to an area of the spectrum where it can be removed by an analogue filter. This improves the accuracy of signal representation, allowing images to be displayed at much higher resolutions.

Progressive Scan Video Output and Other Video Technologies (RX-Z9)

The RX-Z9 is the first receiver to provide Progressive Scan Video Output, for use with high definition monitors. With almost twice as much video data, it provides a sharper, noise-free picture with clearer details. The progressive circuit is an 3:2 Pull-Down Detection type, and gives you the benefit of progressive scanning even if your DVD player does not have it. Other video technologies include 216MHz/12-bit Video D/A Conversion, Motion Adaptive Noise Reduction, Cross Colour uppression, Aspect Ratio Conversion, a Time Base Corrector that prevents the wavy distortion seen in video tapes and TrueLife Enhancer by Faroudja that brings out details in the picture producing a more lifelike image.

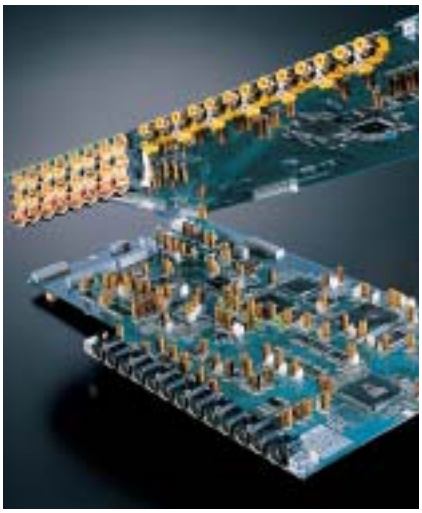

YGV-619 video processor LSI (Yamaha original)

HDTV (720p/1080i) Compatible Component Video Monitor Out

The frequency response of the component video monitor out signal is an extremely wide 5Hz–100MHz (RX-Z9; RX-V2500, RX-V1500, RX-V757, RX-V657, RX-V557, RX-V457 and RX-V357 are 5Hz–60MHz), ensuring compatibility with HDTV (720p, 1080i) monitors.

Image Adjustment (RX-Z9)

To ensure that the high quality image looks precisely the way you want it to, the RX-Z9 includes an extremely detailed Image Adjustment function. You can select three modes, Cinema, Standard or Dynamic, and within those modes, you can "fine-tune" five parameters: Enhancer, 3D NR, Contrast, Brightness and Saturation. You can then store your final adjustments in the user memory for recall at any time.



Digital Video Processing Board

All digital video processing circuitry is on a single board, housed in its own separate chamber to completely avoid interference from other circuitry.

Before TrueLife Enhancer (Left) vs. After TrueLife Enhancer (Right)

DCDi Off (Left) vs. DCDi On (Right)

Without Film Mode (Left) vs. With Film Mode (Right)

Time Base Corrector Off (Left) vs. Time Base Corrector On (Right)

Above images are simulated.

Advanced Facilities

Each generation of Yamaha receivers brings an evolution of our popular features while adding innovative enhancements to improve the operating experience. This is why even though our receivers are the most technologically advanced, they remain remarkably easy to use and enjoy. Although these receivers look like formidable machines, you'll soon appreciate just how convenient and enjoyable they are to use.

YPAO Sets the Best Sound for Your Room — Automatically! (RX-Z9, RX-V2500, RX-V1500, RX-V757, RX-V657, YHT-840BG and DVX-S150)

YPAO automatically modifies the audio output to provide precisely the best sound for the acoustics of the room. The unit comes supplied with a high precision Optimiser Microphone, which you simply place in the position where you most frequently listen. Activating the YPAO function causes test tones to be emitted from the speakers. These tones are picked up by the Optimiser Microphone and then analysed. Based on the results, a variety of audio parameters are precisely calibrated to optimise the sound at the listening position. You enjoy not only better sound, but the BEST sound for each and every room.

The RX-V2500 has an improved system also adjusts frequency response, and provides three programmed EQ patterns, plus the ability to manually adjust parametric EQ settings. Six YPAO settings can be held in memory and recalled via two system memory buttons on the remote control.

On-Screen Display with GUI and Dedicated Remote Control (RX-Z9)

The RX-Z9 and RX-V2500 have the best looking and easiest to use on-screen display you've ever seen. This is due in part to the high quality video circuitry, which provides sharp, clear images. The GUI (Graphical User Interface) includes extensive yet easily understandable setup menus and has been designed to make it easy to select and adjust desired functions.

And to further simplify operation, The RX-Z9 has provided a second remote control dedicated to GUI use. The large round cursor control in the centre makes it easy to navigate the on-screen menus and enter desired commands. It also has power, volume and mute buttons.

Custom Installation Compatibility (RX-Z9, RX-V2500, RX-V1500, RX-V757, RX-V657 and RX-V557)

• Multi-Zone Capabilities

These receivers have a variety of features that allow flexible custom installation for enjoying sound in two or three rooms (zones) of your home. The RX-V2500 and RX-V1500 provide audio output to Zones 2 and 3, and the RX-V2500 offers video output (including S-Video) for Zone 2 as well. The RX-Z9/RX-V757/RX-V657/RX-V557 deliver audio output to Zone 2. Zone 2 power amplifier assignability and speaker terminals mean that Zone 2 can be fully independent with its own 2-channel power, while you still enjoy 5.1-channel sound in the main room (except RX-V557).

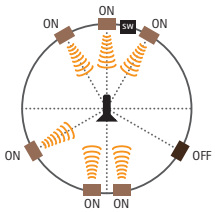
• Convenient Control

A switch for selecting Main Zone or Zone 2 power is conveniently located on the front panel (except RX-V1500). All five receivers provide a remote control for Zone 2, and the RX-V2500 also offers Zone 2 and 3 volume control, mute and input selection.

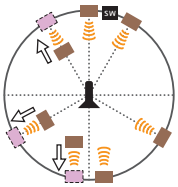
• Other Features

All six receivers include trigger output for automatic powering of other components (RX-Z9/RX-V2500 has two), remote control IR code input and output (RX-Z9/RX-V2500 has two), and an RS-232C interface for using a PC or touch-screen controller to configure the receiver. They also provide speaker A, B or A+B selection.

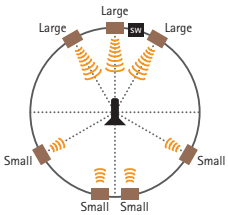
YPAO Acoustic Customisation: 5 Tuning Factors



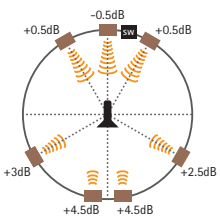
1) Speaker Connections
Checks for missing connections and subwoofer phase control (here the right surround speaker is not connected).



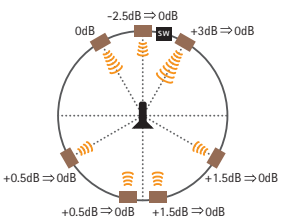
2) Speaker Distance
Measures speaker distances from the listening point and corrects for differences down to 5cm.



3) Speaker Size
Checks speaker sizes (large or small) and subwoofer crossover frequency.



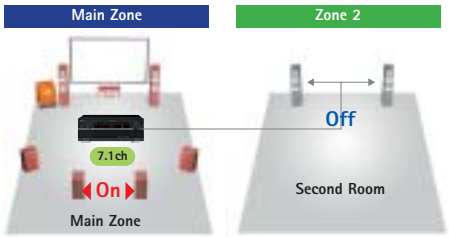
4) Speaker Frequency Response
Measures and optimises each speaker's frequency response using the parametric equaliser.



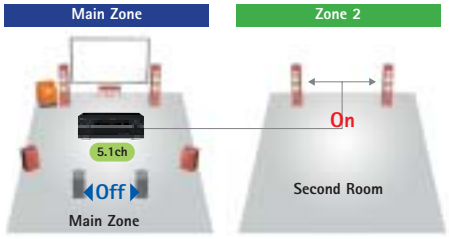
5) Sound Pressure Level
Measures and aligns the sound pressure levels of all speakers.

RX-Z9 YPAO Optimiser Microphone

Zone 2 Power Amplifier Assignment



7.1ch programme is played back in Main Zone while Zone 2 is turned off.

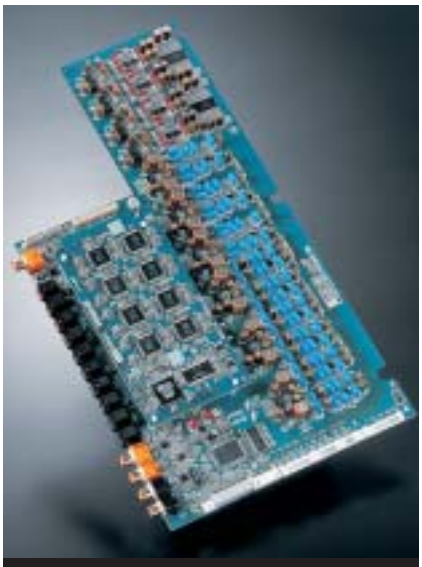


Surround back amps are automatically assigned as Zone 2 amps.

Best Surround Realism

Triple the Density

Double the Speed



Yamaha was able to fit all the High Definition CINEMA DSP circuitry (that's a lot of processing power!) on a single board in its own chamber, for greater efficiency and isolation from possible interference.

High Definition CINEMA DSP Technology (RX-Z9)

The RX-Z9 has six times greater DSP capacity than previous models, thanks to an increase from 48kHz to 96kHz/24-bit A/D converters that can accept 96kHz signals for direct digital conversion and processing. Higher density processing enables approximately triple the amount of early reflection data to be handled, for significantly richer surround sound performance.

The RX-Z9 also employs 192kHz/24-bit D/A conversion and DSP processing and Yamaha's 32-Bit Floating-Point Quantisation System LSIs (four YSS-930s) for high precision decoding of Dolby Digital, DTS Digital Surround, DTS 96/24, DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS Neo:6 and Dolby Pro Logic IIx formats.

Conventional multichannel systems base their sound on Dolby Digital and DTS decoding, using relatively simple matrix and steering techniques to create surround sound effects. Yamaha's CINEMA DSP Digital technology is much more sophisticated. It naturally decodes the Dolby Digital and DTS movie sound formats, but it also draws on a huge memory of real-world data from actual venues (especially for the music programmes) and input from movie sound technicians. This data is stored and processed on Yamaha-developed LSIs, the most powerful audio chips in the world.

Way Beyond Ordinary Surround Sound

Our latest technology, Quad-Field CINEMA DSP actually creates four independent sound fields (front, surround left, surround right and surround back) that merge to envelop you in an unmatched surround sound experience. You hear movies and music with accurate sound localisation, smooth movement across the sound space, exceptional clarity and remarkably realistic presence. It will seem as if the walls of your room have disappeared and you are in the middle of your own immense theatre!

Yamaha Uses Actual Sound Field Data

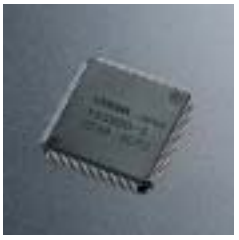
Yamaha developed a technique called Single Point Quad Miking to precisely capture the acoustic patterns of sound spaces. This complex data is stored and processed on extremely sophisticated LSIs designed and manufactured by Yamaha.

4-Layer DSP Processing Board

All of the DSP IC chips and related circuitry are located together on a 4-layer board, which provides a number of advantages. The dimensions are smaller (2/3 previous types), so signal paths are shorter and there is more space for the large power supply components. Digital interference is reduced and impedance is lower as well.

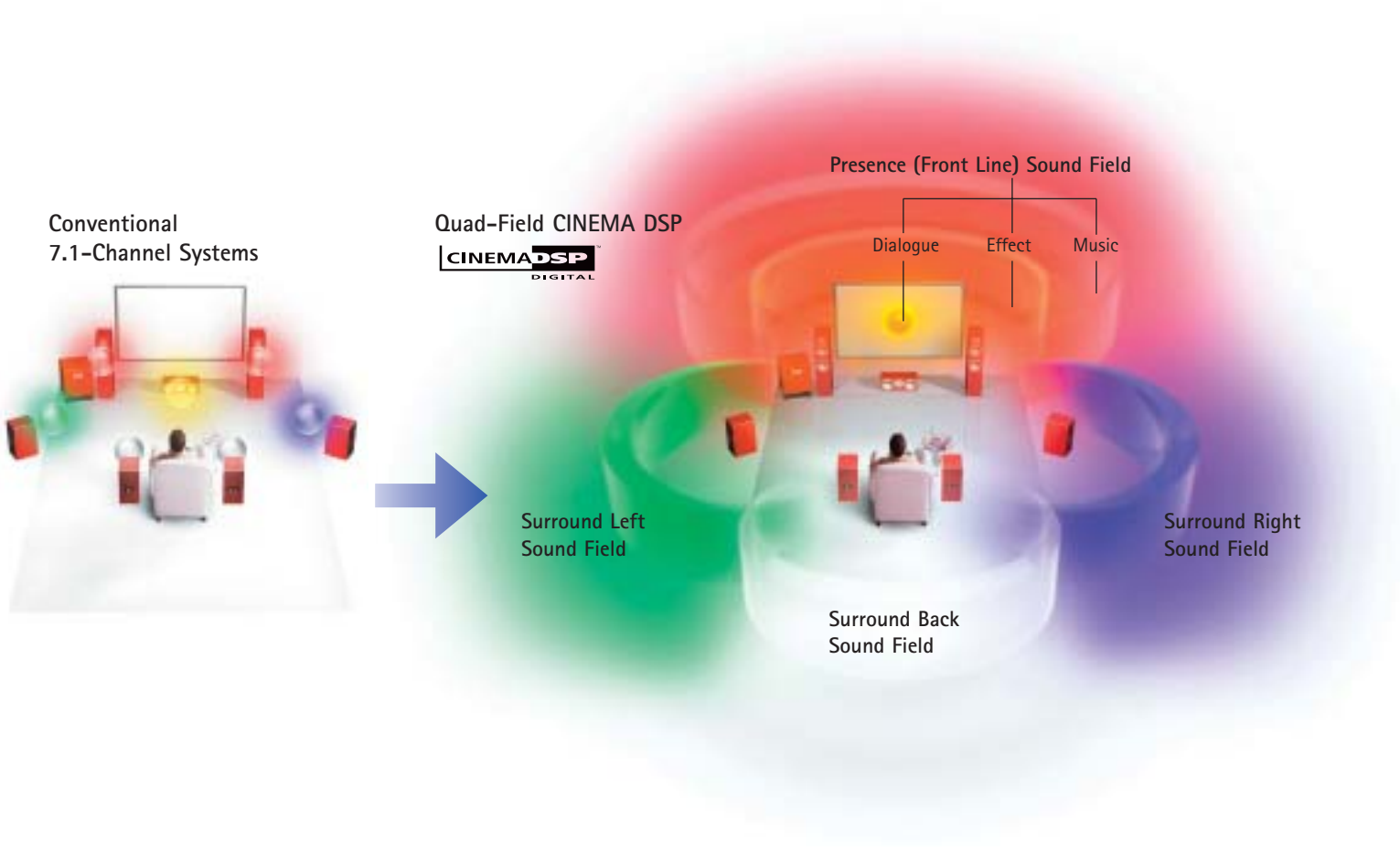
Yamaha's Exclusive YSS-930 32-Bit Floating Point Quantisation LSI (RX-Z9, RX-V2500 and RX-V1500)

This powerful LSI performs all Dolby Digital and DTS decoding with extreme accuracy, as well as all digital sound field processing, capabilities that previously required two or more chips. It also outperforms other chips in the precise synchronisation of images and sound.



Audio Delay for Adjusting Lip-Sync

A Yamaha LSI provides synchronisation of images and sound, which is called lip-sync. The video signal goes through the video processor circuit before it is displayed, which takes time, so it lags behind the audio. The LSI accurately aligns them



and even allows the lip-sync parameters to be adjusted using the Audio Delay mode.

CINEMA DSP Programmes and THX Programmes

One of the main advantages of CINEMA DSP is the large choice of sound field programmes available. The basic programme for movies is Enhanced, which greatly improves the sound of the surround fields. The "largest" of these sound fields is Spectacle, which recreates the open feeling of large-scale, epic motion pictures. The Sci-Fi, Adventure and General programmes provide the optimum sound fields for those movie genres. There are also THX programmes*.

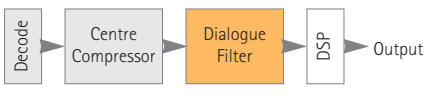
* THX Ultra2/Select are the surround programmes for home use, based on the THX Theater processing developed for movie theatre surround sound.

Night Listening Enhancer

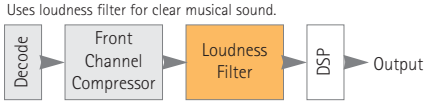
During low-volume listening, such as late at night, dynamic range suffers and you may miss some sounds. The Night Listening Enhancer offers two modes, Cinema and Music, with three-level selectability, which will ensure that you don't miss movie dialogue or quiet passages, or lose overall surround spaciousness. It works for all surround programmes, including Dolby Pro Logic IIx.

Night Listening Enhancer

Cinema Mode
Equalises centre channel frequency response for clear dialogue.



Music Mode
Uses loudness filter for clear musical sound.



Enjoy Surround Sound through Headphones

SILENT CINEMA makes it possible to hear large-scale surround sound through ordinary headphones! This is a variation of CINEMA DSP technology that Yamaha developed to let you listen in private to movies and other multichannel sources for hours without listening fatigue.

Surround Sound from Only Two Speakers

With just two left and right speakers, the Virtual CINEMA DSP mode will create two additional "virtual" surround speakers, giving you the sense of being in a full-scale surround sound field. So even in rooms with no space for surround speakers, you can enjoy the exciting effects of Dolby Digital and DTS movie sound formats.

Only Yamaha Could Set These Goals for a Home Theatre Receiver

This flagship RX-Z9 goes beyond the capabilities of previous high-end Yamaha models with High-Definition CINEMA DSP technology, the ability to automatically optimise the sound for the listening room, superior audio and video quality, and the operating ease that Yamaha is famous for. The high end moved up a step.

The RX-Z9 has been honoured with an EISA Award for Home Theater High End Component 2004-2005. The prestigious EISA Awards are chosen by media representatives from up to 20 European countries.

RX-Z9 Digital Home Theatre Receiver

9-Channel Amplifier Capable of Delivering 1,290W

When you power up your carefully assembled, top-class home theatre system, you expect beautiful sound and video quality, but you also want plenty of raw power. Especially at dynamic peaks, such as explosions or the climax of rock songs, you want to be thrilled and awed, without a hint of distortion marring the moment. The RX-Z9 is built to satisfy your urge for power, surrounding you front, sides and rear with seven channels capable of outputting a huge 170 W each, plus another 50W from the two presence (front effect) channels. That's a total of 1,290W. Movies will sound as if you're in the director's chair, and you can even enjoy multi-channel sources from only four or five speakers (even without a subwoofer, although this is not recommended), thanks to an analogue mixdown mode. Another point to consider is that because of this high power capability, at normal listening levels the amplifier won't be working as hard, so distortion levels are virtually zero.

Superior Digital-to-Analogue Converter System

For the important digital-to-analogue converters, Yamaha has chosen the PCM1792 manufactured by the high-end audio expert, Burr-Brown. The RX-Z9 uses these DACs for all channels. The PCM1792 is a high-performance, precision 24-bit DAC with ultra-low distortion of only 0.0004% (THD + N) and S/N ratio of 129dB. It offers superior low level linearity, with excellent full-scale performance under varying operating conditions. Its major benefit is performing accurate sound field processing for high quality multi-channel reproduction such as Dolby Digital and DTS. For two-channel stereo, the PCM1792 provides outstanding separation and accurate musical delineation. An additional advantage is its 192kHz/24-bit conversion capability, making it compatible with the latest (and future) high resolution digital audio sources.

39 Surround Sound Programmes

The RX-Z9 offers a huge range of 39 surround

RX-Z9 Rear Panel Connections

- 7 Optical, 4 Coaxial Digital Inputs (fixed and assignable)
- 3 Optical Digital Outputs (fixed and assignable)
- 7 A/V and 4 Audio Inputs, 3 A/V and 2 Audio (Audio Signal) Outputs, and Zone 2 Audio Outputs
- 6 Component Video Inputs (fixed and assignable) and 2 Monitor Component Video Outputs
- 2 Monitor (with S-Video) Outputs, 7 Video Inputs /3 Video Outputs (with S-Video), and Zone 2 Video (with S-Video) Output
- Pre-Main and Centre Couplers, Surround, Surround Back and Presence Preouts, and Subwoofer Outputs
- 8-Channel External Decoder Input
- RS-232C Interface for Custom Installation
- 2 Trigger Outputs for Automatic Power on of Other Components (+12V, 15mA)
- Remote Control IR Code Input/Output
- Zone 2 Coaxial Digital Output Terminal
- i.LINK (IEEE 1394) Digital Audio Interface
- Pure Direct 2-Channel Inputs

– and Achieve Them!

sound programmes to choose from. For video material, you can select the programme that matches your video source, with 12 choices from games and TV sports to Sci-Fi movies. For music, you have 21 choices ranging from European concert halls to disco ambience. Each sound field is created from acoustic data recorded at the actual venues, stored and processed by highly sophisticated Yamaha technology. There are also 6 THX programmes, including Ultra2. Naturally, you can experiment with different programmes for each source, and you can also use the GUI menus to adjust numerous parameters for each programme. With CINEMA DSP, you will never be bored or dissatisfied with the sound of your system!!

Oil-Damped Hidden Control Panel

YPAO (Yamaha Automatic Parametric Room Acoustic Optimiser)

RX-Z9 YPAO Optimiser Microphone

Some components have a graphic equaliser (in fact, this one does too) which admittedly, can be a bit difficult to use. Parametric equalisers are even more effective, but only audio professionals can use them. The RX-Z9 is the first amplifier to give you the benefits of a 10-band parametric equaliser, which automatically adjusts the audio output to provide precisely the best sound for the acoustics of the room.

How does it work? The amplifier comes supplied with a small Optimiser Microphone, which you simply place in the position where you most frequently listen. Activating the YPAO function causes test tones to be emitted from the speakers. These tones are analysed and based on the results, a variety of audio parameters are precisely calibrated to optimise the sound at the listening position. Among the factors analysed are speaker connections and phasing, speaker size, sound pressure levels and speaker frequency response. In short, the RX-Z9 not only delivers better sound, it delivers the BEST sound for each and every room.

Ideal for Use in Custom Installations

The RX-Z9 has numerous features designed to facilitate use in customised multi-room installations. These include Zone 2 coaxial, video (including S-Video) and audio outputs for multi-room control capability, two trigger outputs for automatic power-on of other components, speaker A/B and A+B selection, an RS-232C interface and remote control IR code input/output compatibility. In addition, the Rec Out Selector also functions as a Zone 2 selector.

Extensive Connections for All the Components You Want!

As shown here, the range of connections on the RX-Z9's rear panel is large enough to meet all of your system building needs. Note that a number of these terminals are fixed and assignable, meaning that they can be independently assigned to sources of your choice or defaulted to fixed settings.

Video Inputs on Front Panel

A panel on the front of the receiver flips up to reveal a number of controls and video input terminals. These include video and audio terminals as well as optical digital and S-Video inputs. This makes it convenient to connect a game machine for DVD games or even movies, or other devices such as a camcorder.

RX-Z9 Inputs and Outputs

	Analogue		Digital				Video					
			Coaxial		Optical		Composite		S Video		Component Video	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
PHONO	■		■		■	■						
CD	■		■		■	■						
MD/TAPE	■	■	■		■	■						
CD-R	■	■	■		■	■						
DVD	■		●		■	■	■		■		■	
DTV/LD	■		■		■	■	■		■		■	
CBL	■		■		■	■	■		■		■	
SAT	■		■		■	■	■		■		■	
VCR 1	■	■	■		■	■	■	■	■	■	■	
VCR 2	■	■	■		■	■	■	■	■	■	■	
DVR	■	■	■		■	■	■	■	■	■	■	
Video Aux	■				■		■		■			
Monitor Out 1								■		■		■*
Monitor Out 2								■		■		■*
ZONE 2		■		■				■		■		
Multi-Ch	■											
Pure Direct 2 Ch	■											

Subwoofer Crossover Selection

The RX-Z9 provides a choice of nine subwoofer crossover frequencies: 40, 60, 80, 90, 100, 110, 120, 160 and 200 Hz. In addition to providing a wider range than other receivers, the steps from 80 to 120 Hz are only 10 Hz apart for more precise selection. This choice of crossovers lets you "fine-tune" the audio system by selecting the optimum frequency to maximise receiver/speaker efficiency and also ensures best performance from a wider variety of speakers (small to large).

Dialogue Lift

Clear dialogue is important for movie enjoyment, however, when using front and centre speakers positioned below the screen, dialogue may not be heard with maximum clarity. The Dialogue Lift function causes part of the front and centre channel sound to be output from the presence speakers, so you hear the dialogue more clearly.

Other Notable Features

- High Current Amplification
- High dynamic power, low impedance drive capability
- Linear Damping
- A/V Rec Out/Zone 2 selector
- 8-channel external decoder input terminals
- Audio Delay for adjusting lip-sync
- S-Video 1/2 wide selective signal compatibility
- Digital tone controls
- 40-station preset tuning
- Direct-access (macro-command, learning and preset capable) remote unit

- Fixed (■), Fixed/Assignable (■) and Assignable (■) Terminals.
- RF (AC-3) terminal for LD input (●) is assignable as coaxial digital terminal.

■*: **HDTV (720p/1080i) Compatible Component Video Out**
The frequency response of the component video monitor out signal is 5Hz – 100MHz, making it compatible with HDTV monitors.

YPAO room sound optimisation makes the most of this receiver's high sound quality and surround realism.

The RX-V2500 is a high performance, technologically advanced receiver that will provide all the power and control necessary for any high quality home theatre system. Major features include 7-channel discrete amplification (910W: 130W x 7), Yamaha's Digital ToP-ART design concept, YPAO Automatic Optimisation, 19 surround programmes including 2 THX programmes, full movie sound format compatibility as well as Dolby Pro Logic IIx, SILENT CINEMA, Night Listening Mode, 9-band subwoofer crossover selection and component video up conversion.

DIGITAL ToP·ART

RX-V2500 7.1-Channel Digital Home Theatre Receiver

CINEMA DSP DIGITAL · SILENT CINEMA · YPAO · DOLBY DIGITAL EX PRO LOGIC IIx · dts 96/24 ES · THX · 8CH EXT. INPUT

• 7-channel 910W powerful surround sound (130W x 7) • YPAO with 6 system memories • YPAO PEQ manual setting • GUI on-screen display • Pure Direct for high quality sound two-channel and multi-channel reproduction • 192kHz/24-bit DACs for all channels • RS-232C interface/2 trigger outputs/2 IR ports • 9-channel speaker terminals including Zone 2/presence speaker terminals (power assignment) and Zone 3 volume • 3 component video inputs • Dolby Pro Logic IIx and DTS 96/24 compatibility • Audio Delay for adjusting lip-sync • Selectable 9-band subwoofer crossover / Subwoofer phase select • Night Listening Enhancer (Cinema / Music) for all surround programmes (including Dolby Pro Logic IIx) and SILENT CINEMA • 19 surround programmes with 2 THX Select programmes • Component video up conversion • Dialogue Lift for enhanced dialogue sound output • Rec out/Zone 2 selector • Main/Zone 2 direct on/off • Direct-access (macro-command, learning and preset capable) remote control unit with macro-command buttons and illuminated buttons

Oil-Damped Hidden Control Panel includes S-Video input and optical digital input terminals for connecting game machines, digital equipment, and so on.

On-Screen Display with GUI (Graphical User Interface)
Operating this receiver is easy and intuitive, thanks to a newly designed GUI, which is displayed on the screen for easy visibility and access via the remote control.

In addition to the input and output terminals shown in the chart the RX-V2500 provides , 8-channel external decoder input for enjoying DVD-Audio and Super Audio CD, there are front L/R, centre, surround L/R and surround back preout terminals and subwoofer output terminals, and dual trigger outputs for automatic power on of other components (+12V, 15mA), dual remote control IR code inputs/output s. It also offers 9-channel speaker terminals including Zone 2 / presence. speaker terminals (banana-plug compatible) and terminal for detachable power cable

RX-V2500 Inputs and Outputs

	Analogue		Digital				Video					
			Coaxial		Optical		Composite		S Video		Compo. V.**	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
PHONO	■		▪		▪							
CD	■		■		■	▪						
CD-R	■	■	▪		▪	■						
MD/TAPE	■	■	▪		▪	■						
DVD	■		■		■	▪	■		■		■	
DTV	■		▪		■	▪	■		■		■	
CBL/SAT	■		▪		■	▪	■		■		■	
VCR 1	■	■	▪		▪	▪	■	■	■	■	▪	
DVR/VCR 2	■	■	■		▪	▪	■	■	■	■	▪	
VIDEO AUX*	■				■		■		■		▪	
MONITOR OUT								■		■		■
RS-232C		■										
Zone 2		■						■		■		
Zone 3		■										

* Video Aux terminals are on front panel.
**Comp. V: Component Video
■: Fixed and Assignable Terminals
▪: Assignable Terminals

A high-performance, high-value receiver featuring Yamaha's unique CINEMA DSP and YPAO acoustic optimisation, plus much more.

The RX-V1500 is a top-grade receiver that will provide all the power and control necessary for any high quality home theatre system. It introduces the YPAO Automatic Optimisation, which automatically adjusts the output from each speaker for the best possible sound at your listening position. Other major features include 7-channel discrete amplification (840W: 120W x 7), Yamaha's Digital ToP-ART design concept, 16 surround programmes including 2 THX programmes, full movie sound format compatibility such as Dolby Pro Logic IIx, Night Listening Enhancer, and component video up conversion.

DIGITAL ToP·ART

RX-V1500 7.1-Channel Digital Home Theatre Receiver

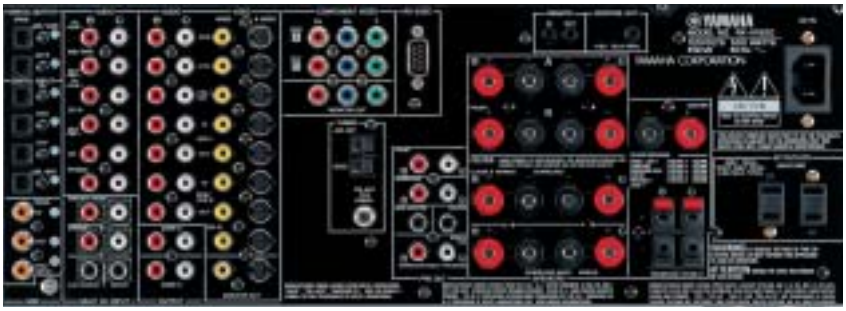
CINEMA DSP DIGITAL · SILENT CINEMA · YPAO · DOLBY DIGITAL EX PRO LOGIC IIx · dts 96/24 ES NEO:6 · THX SURROUND EX · 8CH EXT. INPUT

• 7-channel 840W powerful surround sound (120W x 7) • YPAO for automatically optimising the sound in your room • Pure Direct for high quality sound two-channel and multi-channel reproduction • 192kHz/24-bit DACs for all channels • RS-232C interface/trigger output/IR port • Zone 2 / presence speaker out (power assignment) and Zone 3 volume • Dolby Pro Logic IIx and DTS 96/24 compatibility • Audio Delay for adjusting lip-sync • Selectable 9-band subwoofer crossover • Night Listening Enhancer (Cinema / Music) for all surround programmes (including Dolby Pro Logic IIx) and SILENT CINEMA • 19 surround programmes with 2 THX Select programmes • Component video up conversion • Dialogue Lift for enhanced dialogue sound output • Front panel Video Aux inputs • 8 digital inputs (5 optical/3 coaxial) • Digital tone controls for front, centre, presence and subwoofer • Direct-access (macro-command, learning and preset capable) remote control unit with macro-command buttons

Oil-Damped Hidden Control Panel includes S-Video input and optical digital input terminals for connecting game machines, digital equipment, and so on.

YPAO Optimiser Microphone

Yamaha's 32-Bit Floating Point Quantisation LSI (YSS-930)



In addition to the input and output terminals shown in the chart the RX-V1500 provides , 8-channel external decoder input for enjoying DVD-Audio and Super Audio CD, there are front L/R, centre, surround L/R and surround back preout terminals and subwoofer output terminals, and a trigger output for automatic power on of other components (+12V, 15mA), al remote control IR code input/outputs. It also offers 9-channel speaker terminals including Zone 2 / presence. speaker terminals (banana-plug compatible) and terminal for detachable power cable

RX-V1500 Inputs and Outputs

	Analogue		Digital				Video					
			Coaxial		Optical		Composite		S Video		Compo. V.**	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
PHONO	■		▪		▪							
CD	■		■		■	▪						
CD-R	■	■	▪		▪	■	■		■			
MD/TAPE	■	■	▪		▪	■						
DVD	■		■		■	▪	■		■		■	
DTV	■		▪		■	▪	■		■		■	
CBL/SAT	■		▪		■	▪	■		■		▪	
VCR 1	■	■	▪		▪	▪	■	■	■	■	▪	
DVR/VCR 2	■	■	■		▪	▪	■	■	■	■	▪	
VIDEO AUX*	■				■		■		■		▪	
MONITOR OUT								■		■		■
RS-232C		■										
Zone 2		■										
Zone 3		■										

* Video Aux terminals are on front panel.
**Comp. V: Component Video
■: Fixed and Assignable Terminals
▪: Assignable Terminals

DIGITAL ToP·ART

RX-V757 7.1-Channel Digital Home Theatre Receiver

CINEMA DSP DIGITAL · SILENT CINEMA · YPAO · DOLBY DIGITAL EX PRO LOGIC IIx · dts 96/24 ES NEO:6 · 8CH EXT. INPUT

Top-class 7.1-channel receiver delivering 700W of sound power and superb picture quality, as well as outstanding features like YPAO, Quad-Field CINEMA DSP, Night Listening Enhancer and more.

• 7-channel 700W powerful surround sound (100W x 7) • Digital ToP-ART and High Current Amplification • YPAO for automatically optimising the sound in your room • Component video up conversion (full) • On-screen display • Pure Direct for high quality sound two-channel and multi-channel reproduction • Zone 2 out (assignable power amplifier), IR port and speaker B for custom installation • Dialogue Lift for enhanced dialogue sound output • Quad-Field CINEMA DSP and 14 surround programmes • Phono input • Learning-capable remote control unit with LCD indication • Night Listening Enhancer (Cinema/Music) and SILENT CINEMA • Speaker A, B or A+B selection (via remote unit)

YPAO Optimiser Microphone

DIGITAL ToP·ART

RX-V657 7.1-Channel Digital Home Cinema Receiver

CINEMA DSP DIGITAL · SILENT CINEMA · YPAO · DOLBY DIGITAL EX PRO LOGIC IIx · dts 96/24 ES NEO:6 · 8CH EXT. INPUT

7.1-channel receiver offering many exclusive Yamaha functions including YPAO automatic optimisation, Quad-Field CINEMA DSP and component video up conversion.

• 7-channel 665W powerful surround sound (95W x 7) • Digital ToP-ART and High Current Amplification • YPAO for automatically optimising the sound in your room • Component video up conversion (full) • On-screen display • Pure Direct for high quality sound two-channel or multi-channel reproduction • Zone 2 out (assignable power amplifier), IR port and speaker B for custom installation • Dialogue Lift for enhanced dialogue sound output • Quad-Field CINEMA DSP and 14 surround programs • Night Listening Enhancer (Cinema/Music) and SILENT CINEMA • 8-channel external decoder input • 6 digital (4 optical and 2 coaxial) inputs • Speaker A, B or A+B selection (via remote unit)

YPAO Optimiser Microphone

DIGITAL ToP·ART

RX-V557 6.1-Channel Digital Home Theatre Receiver

CINEMA DSP DIGITAL · SILENT CINEMA · DOLBY DIGITAL EX PRO LOGIC IIx · dts 96/24 ES · 6CH EXT. INPUT

6.1-channel receiver offering outstanding sound and picture quality, with a wide range of desirable features such as 540W power, Quad-Field CINEMA DSP and component video up conversion.

• 6-channel 540W powerful surround sound (90W x 6) • Digital ToP-ART and High Current Amplification • Component video up conversion (full) • Zone 2 out, IR port and speaker B for custom Installation • Dolby Digital EX, DTS-ES, Dolby Pro Logic IIx and DTS 96/24 compatibility • Quad-Field CINEMA DSP and 14 surround programmes • Night Listening Enhancer (Cinema/Music) and SILENT CINEMA • 192 kHz/24-bit DACs for all channels • Selectable 9-band subwoofer crossover / Subwoofer phase select • Audio Delay for adjusting lip-sync (0–160 ms) • Aluminium front panel • Speaker A, B or A+B selection (via remote unit)

DIGITAL ToP·ART

RX-V457 6.1-Channel Digital Home Theatre Receiver

CINEMA DSP DIGITAL · SILENT CINEMA · DOLBY DIGITAL EX PRO LOGIC IIx · dts 96/24 ES · 6CH EXT. INPUT

The previous RX-V440 has been honoured with an EISA Award for Best Home Theater Receiver 2003-2004. The prestigious EISA Awards are chosen by media representatives from up to 20 European countries.

Full-function, 510W high-power 6.1-channel receiver with special features like Quad-Field CINEMA DSP and Night Listening Enhancer.

• 6-channel 510W powerful surround sound (85W x 6) • Digital ToP-ART and High Current Amplification • Dolby Digital EX, DTS-ES, Dolby Pro Logic IIx and DTS 96/24 compatibility • Direct Stereo for high quality two-channel sound reproduction • Night Listening Enhancer (Cinema/Music) and SILENT CINEMA • Quad-Field CINEMA DSP and 14 surround programmes • 192kHz/24-bit DACs for all channels • Selectable 9-band subwoofer crossover / Subwoofer phase select • Audio Delay for adjusting lip-sync (0–160ms) • 2 component video inputs and 3 digital inputs • 3 S-Video inputs • Speaker A, B or A+B selection (via remote unit)

RX-V357 5.1-Channel Digital Home Theatre Receiver

CINEMA DSP DIGITAL · SILENT CINEMA · DOLBY DIGITAL PRO LOGIC II · DIGITAL dts SURROUND · 6CH EXT. INPUT

Powerful 500W 5.1-channel surround sound with Quad-Field CINEMA DSP and many other exclusive Yamaha features for a thoroughly enjoyable home theatre experience.

• 5-channel 500W powerful surround sound (100W x 5) • 2 component video inputs • Dolby Digital/Matrix 6.1 and DTS/Matrix 6.1 compatibility plus Dolby Pro Logic II decoding • Night Listening Mode and SILENT CINEMA • Quad-Field and Tri-Field CINEMA DSP and 14 surround programmes • 192kHz/24-bit D/A converters for all channels • 3 digital audio inputs (fixed and assignable) • Speaker A or B selection • 5-band centre graphic equaliser • Analogue mixdown

Digital Home Theatre Receiver Comparison

	RX-Z9	RX-V2500	RX-V1500	RX-V757	RX-V657	RX-V557	RX-V457	RX-V357	RX-SL100
Channels	9	7	7	7	7	6	6	5	6
RMS Power (8 ohms, 20Hz–20 kHz)	170W x 7 + 50W x 2	130W x 7	120W x 7	100W x 7	95W x 7	90W x 6	85W x 6	100W x 5 (6 ohms)	100W x 6 (Max)
Amp Configuration	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Power IC	Digital
Digital ToP-ART	■	■	■	■	■	■	■		
High Current Amplification	■	■	■	■	■	■	■		
Accurate Touch Volume Control	■	■	■	■	■				
High Dynamic Power	■	■	■	■	■	■	■	■	
Linear Damping	■	■	■	■	■	■	■		
Analogue Mixdown	■	■	■	■	■	■	■	■	
Rotary Input Selector	■	■	■	■	■	■	■		
High Definition CINEMA DSP	■								
Dolby Pro Logic IIx	■	■	■	■	■	■	■		
DTS 96/24	■	■	■	■	■	■	■		
DTS Neo:6	■	■	■	■	■	■	■		■
192kHz/24-Bit DACs	For all channels	For all channels	For all channels	For all channels	For all channels	For all channels	For all channels	For all channels	
Tone Controls	Digital (L/C/R)	Digital (L/C/R/Pr/Sw)	Digital (L/C/R/Pr/Sw)	Digital	Digital	■	■	■	
Pure Direct	■	■	■	■	■				
Direct Stereo			■			■	■		
2-Channel Stereo Mode	■	■	■	■	■	■	■		
Straight / Effect Switch	■	■	■	■	■	■	■		
Audio Delay	■ (0–240 ms)	■ (0–240 ms)	■ (0–240 ms)	■ (0–160 ms)	■ (0–160 ms)	■ (0–160 ms)	■ (0–160 ms)		
YPAO with Optimiser Microphone	■	■ (with 6 memories)	■	■	■				
Set Menu	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Basic/Manual	Basic/Manual	Basic/Manual	
Surround Program	39	19	16	14	14	14	14	14	14
THX Processing	Ultra2	Select	Select						
i.LINK Digital Audio Interface	■								
SILENT CINEMA	■	■	■	■	■	■	■	■	■
Virtual CINEMA DSP	■	■	■	■	■	■	■	■	■
Night Listening Enhancer		■	■	■	■	■	■	Night Listening Mode	
Selectable Subwoofer Crossover	9-band	9-band	9-band	9-band	9-band	9-band	9-band		
Subwoofer Phase Select		■		■	■	■	■		
9-Channel Speaker Outputs	■	■	■	■	■				
Dialogue Lift	■	■	■	■	■				
Multi-Channel External Decoder Input	8ch	8ch	8ch	8ch	8ch	6ch	6ch	6ch	
Pre-Main Couplers	2 front and 1 centre								
Preout Terminals	6 (2S/2SB/2Pre)	7 (2F/C/2S/2SB)	7 (2F/C/2S/2SB)	7 (2F/C/2S/2SB)	7 (2F/C/2S/2SB)				
Subwoofer Out	2 (front/rear)	■	■	■	■	■	■	■	■
On-Screen Display	■ (with GUI)	■ (with GUI)	■	■	■			■ (with GUI)	
Component Video Inputs/Outputs	6/2	3/1	2/1	2/1	2/1	2/1	2/1	2/1	
Video (S-Video) Inputs	8 (8)	6 (6)	7 (7)	5 (5)	5 (5)	4 (3)	4 (3)	4 (0)	
Component Video Up Conversion	Digital, up/down	■	■	■	■	■			
Progressive Scan Processing	DCDi								
Assignable Power-Amp		■	■	■	■				
RS-232C Interface	■	■	■						
Zone2 Out	■ (with coaxial)	■ (with S-Video)	■ (audio only)	■ (audio only)	■ (audio only)	■ (audio only)			
Zone3 Out		■ (audio only)	■ (audio only)						
Zone3 Volume		■	■						
Main/Zone2 Direct On/Off Switch		■		■	■	■			
+12V Trigger Outputs	■ (x 2)	■ (x 2)	■	■	■	■			
IR Ports	■ (x 2)	■ (x 2)	■	■	■	■			
Speaker A, B or A+B Selection (via remote)	■	■	■	■	■	■	■	Speaker A/B selection	
Digital Inputs (Optical/Coaxial)	12 (8/4*)	8 (5/3)	8 (5/3)	6 (4/2)	6 (4/2)	4 (3/1)	3 (2/1)	3 (2/1)	4 (3/1)
Front Panel Video Aux Terminals	With optical/S-Video	With optical/S-Video	With optical/S-Video	With optical/S-Video	With optical/S-Video	■	■		With optical
Phono Input	■	■	■	■					
Sleep Timer	■	■	■	■	■	■	■	■	
Remote Control	Direct access	Direct access	Direct access	Learning-capable	Preset	Preset	Preset	Preset	Preset
Front Panel	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Plastic	Plastic	Aluminium
Volume Knob	Aluminium	Aluminium	Aluminium	Aluminium	Plastic	Plastic	Plastic	Plastic	Plastic
Dynamic Power/Channel (8/6/4/2 ohms)	210/260/340/580 W	165/205/260/340 W	155/195/250/330 W	135/170/200/245 W	130/165/195/240 W	120/155/190/235 W	115/150/185/230 W	-/105/135/165 W	
Damping Factor (8 ohms, 20 Hz–20 kHz)	200 (front/centre)	140 (front, speaker A)	140 (front, speaker A)	120 (front, speaker A)	120 (front, speaker A)	120 (front, speaker A)	120 (front, speaker A)		
Frequency Response	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	10Hz–100kHz +0, -3dB	0Hz–100kHz +0, -3dB	120Hz–50kHz +0, -3 dB
Total Harmonic Distortion (20 Hz–20 kHz, CD)	0.005% (85W/8ohms)	0.04% (65W/8ohms)	0.04% (60W/8ohms)	0.06% (50W/8ohms)	0.06% (50W/8ohms)	0.06% (40W/8ohms)	0.06% (40W/8ohms)	0.06% (50W/6ohms)	0.04% (35W/6ohms)
Signal-to-Noise Ratio (CD, 250 mV)	100dB	100dB	100dB	100dB	100dB	100dB	100dB	100dB	98dB
Component Video Monitor Out Frequency Response	5Hz–100MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB		
Dimensions (W x H x D, mm)	435 x 211 x 471	435 x 171 x 434	435 x 171 x 434	435 x 171 x 420	435 x 171 x 420	435 x 171 x 420	435 x 161 x 416	435 x 151 x 315	435 x 55.5 x 330
Weight	30 kg	15.5 kg	15.5 kg	12.5 kg	12.5 kg	11 kg	11 kg	9 kg	6.4 kg

* Including AC-3 (LD): fixed and assignable to coaxial digital input

Digital Home Theatre Component Surround Programmes

		RX-Z9	RX-V2500	RX-V1500	RX-V757	RX-V657	RX-V557	RX-V457	RX-V357	RX-SL100	DVX-S200/DVX-S150
Compatible Decoding Formats											
	Dolby Digital	●	●	●	●	●	●	●	●	●	●
	Dolby Digital EX	●	●	●	●	●	●	●	● (Matrix 6.1)	●	
	DTS Digital Surround	●	●	●	●	●	●	●	●	●	●
	DTS 96/24	●	●	●	●	●	●	●		●	
	DTS-ES Matrix 6.1	●	●	●	●	●	●	●	● (Matrix 6.1)	●	
	DTS 96/24 ES (6.1)	●									
	DTS-ES Discrete 6.1	●	●	●	●	●	●	●			
	Dolby Pro Logic	●	●	●	●	●	●	●	●	●	●
	Dolby Pro Logic II Music	●	●	●	●	●	●	●	●	●	●
	Dolby Pro Logic II Movie	●	●	●	●	●	●	●	●	●	●
	Dolby Pro Logic II Game	●	●	●	●	●	●	●	●	●	
	Dolby Pro Logic IIx Music	●	●	●	●	●	●	●	●		
	Dolby Pro Logic IIx Movie	●	●	●	●	●	●	●	●	●	
	Dolby Pro Logic IIx Game	●	●	●	●	●	●	●	●	●	
	DTS Neo:6 Music	●	●	●	●	●	●	●	●	●	
	DTS Neo:6 Cinema	●	●	●	●	●	●	●	●	●	
HiFi DSP Programmes											
HALL	Munich A	●	●								● (Classic Hall)
	Frankfurt	●									
	Stuttgart	●									
	Munich B	●									
	Vienna	●	●	●							
	Amsterdam	●									
	Hall G in U.S.A	●									
	Hall H in USA	●									
	Live Concert	●			●	●	●	●	●	●	
CHURCH	Tokyo	●									
	Freiburg	●	●								
	Royaumont	●									
JAZZ CLUB	Village Gate	●									
	Village Vanguard	●									
	The Bottom Line	●	●	●	●	●	●	●	●	●	●
ROCK CONCERT	The Roxy Theatre	●	●	●	●	●	●	●	●	●	●
	Warehouse Loft	●									
	Arena	●									
CLASSICAL/OPERA	Classical/Opera		●								
ENTERTAINMENT	Disco	●	●	●	●	●	●	●	●	●	
	Party	●									
	9 Ch Stereo	●	● (7/5 Ch Stereo)	● (7/5 Ch Stereo)	● (7 Ch Stereo)	● (7 Ch Stereo)	● (6 Ch Stereo)	● (6 Ch Stereo)	● (6 Ch Stereo)	● (5 Ch Stereo)	● (5 Ch Stereo)
HiFi DSP Subtotal		21	8	5	5	5	5	5	5	4	
CINEMA DSP Programmes											
ENTERTAINMENT	Game	●	●	●	●	●	●	●	●	●	●
TV THEATER	TV Sports	●	● (Variaty/Sports)	● (Variaty/Sports)	● (Variaty/Sports)	● (Variaty/Sports)	● (Variaty/Sports)	● (Variaty/Sports)	● (Variaty/Sports)	● (Live Sports)	
	Mono Movie	●	●	●	●	●	●	●	●	●	
MUSIC VIDEO	Pop/Rock	●	●	●	●	●	●	●	●	●	● (Music Video)
	DJ	●									
	Classical/Opera	●									
	Pavilion	●									
MOVIE THEATER 1	Spectacle	●	●	●	●	●	●	●	●	●	●
	Sci-Fi	●	●	●	●	●	●	●	●	●	●
MOVIE THEATER 2	Adventure	●	●	●	●	●	●	●	●	●	● (Action)
	General	●	●	●	●	●	●	●	●	●	● (Drama)
ENHANCED	Enhanced	●	●	●	●	●	●	●	●	●	● (Theater)
CINEMA DSP Subtotal		12	9	9	9	9	9	9	9	9	8
THX Programmes											
	Cinema	●	●	●							
	Ultra 2 Cinema	●									
	Music	●									
	ES Matrix 6.1	●									
	ES Discrete 6.1	●									
	Surround EX	●	●	●							
THX Programme Subtotal		6	2	2							
Programme Total		39	19	16	14	14	14	14	14	14	12

●: HiFi DSP Programmes ●: CINEMA DSP ●: Tri-Field CINEMA DSP Capable ●: Quad-Field CINEMA DSP Capable ●: THX Programmes

DVD Players

High quality DVD-Audio/Super Audio CD player will be the focal point of an impressive home theatre system.

DVD-S2500 DVD Player

DVD-Audio/Super Audio CD Playback
The DVD-S2500 is compatible with both DVD-Audio and Super Audio CD. These multi-channel music formats provide a surround sound music experience that is much more natural and lifelike than normal stereo.

HDCP and HDMI Compatibility
HDCP and HDMI are both advanced versions of DVI (Digital Video Interface). They provide superb video quality, much better than a component connection. HCDP includes content protection and HDMI handles both video and audio. These connections provide 480p, 576p, 720p and 1080i digital video output capability.

Dual i.LINK (IEEE1394) Terminals
i.LINK provides a digital connection for DVD-Audio Linear PCM, Super Audio CD DSD (Direct Stream Digital) and other high quality audio sources.

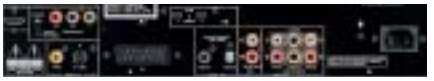
DCDi Progressive Scanning with 3:2 Pull-Down
The DVD-S2500 has a progressive scan processor built in, so progressive video images can be viewed on a digital TV or monitor. Also it provides Motion Adaptive Noise Reduction, Cross Colour Suppressor, Aspect Ratio Conversion and TrueLife Enhancer.

216 MHz/12-Bit Video DAC
This new high performance video DAC ensures superior image quality with all video sources.

Aluminium Front Panel
An aluminium front panel is used to effectively shield sensitive low-level circuitry from external noise and electronic radiation generated by dimmer switches, HVAC, fluorescent lighting and video display (CRT, LCD, Plasma). This ensures that the DVD-S2500 product provides optimum sonic performance in the widest range of installation environments.

Other Notable Features
• Progressive Scan (PAL/NTSC) • 192kHz/24-bit (DVD-Audio) and Super Audio CD compatible audio DAC • On-Screen Display with GUI (Graphical User Interface) • Video Off mode • RS-232C interface for custom installation • MP3 (multisession and ID3Tag) playback • Picture CD and JPEG (multisession) playback • Gold-plated terminals for all pin jacks

HDMI LSI (left) and i.LINK (IEEE1394) LSI (right)



The DVD-S2500 rear panel offers optical and coaxial digital audio output terminals, component video output terminals (progressive/interlace), S-Video and composite video output terminals, mixed 2-channel audio output terminals, 5.1-channel discrete audio output terminals, HDMI terminal, dual i.LINK (IEEE1394) terminals, RS-232C interface, remote control IR code input/output, a terminal for a detachable power cable and SCART terminal.

DVD-S1500 DVD Player

GUI (Graphical User Interface) for Easy Use

Uses new video and audio technologies for superior performance and allows playback of both DVD-Audio and Super Audio CD discs.
• DVD-Audio and Super Audio CD playback • Progressive Scan (PAL/NTSC) • CD upsampling • Audio Direct mode • Faroudja DCDi processing for smooth and natural images without staircasing or jaggies • 192kHz/24-bit audio D/A conversion for high sound quality • 108MHz/12-bit video D/A conversion for high picture quality • On-Screen Display with GUI (Graphical User Interface) • DVD-Video, Super VCD, VCD, JPEG (multisession), Audio CD and MP3 (multisession) playback • DVD+RW/+R*, DVD-R/-RW* and CD-R/RW*,**,*** playback • Gold-plated terminals for all pin jacks • PAL/NTSC conversion • Aluminium front panel

The DVD-S1500 rear panel offers optical and coaxial digital audio output, component video output (progressive/interlace), S-Video and composite video output, mixed 2-channel audio output terminals, 5.1-channel audio output terminals and a terminal for a detachable power cable.

DVD-C750 DVD Changer

Designed for Extremely High Sound AND Picture Quality, the DVD-C750 Also Offers a Wide Range of Advanced Features for Greater Movie and Music Enjoyment.

• Progressive Scan (PAL/NTSC) • 108MHz/12-bit video D/A • Video picture mode • CD upsampling • DVD-Audio and Super Audio CD playback compatibility • 192kHz/24-bit audio D/A converter • Yamaha Patented "PlayXchange" • Versatile format and disc compatibility • On-screen display • MP3, JPEG, DivX and WMA multisession playback with navigation display • Picture CD (such as JPEG) playback • JPEG/MP3 simultaneous playback for slide show • Multiple zoom • CD Text display • PAL/NTSC conversion

Yamaha Patented PlayXchange
The DVD-C750 gives you the benefits of extended playing time and direct selection from all discs. And with PlayXchange, you can change discs while the current one continues to play.

The DVD-C750 rear panel offers optical and coaxial digital audio output, component video output (progressive/interlace), S-Video and composite video output, mixed 2-channel audio output and 5.1-channel audio output terminals .

DVD-S657 DVD Player

Slim Progressive Scan DVD player with outstanding picture and sound quality, plus DVD-Audio/Super Audio CD playback.

• Progressive Scan (PAL/NTSC) • 108MHz/12-bit video DAC
• DVD-Audio/Super Audio CD playback • CD upsampling
• 192kHz/24-bit audio DAC • Audio Direct • Versatile format and disc compatibility such as VR format recorded DVD-RW (with CPRM) and DVD+R Double Layer (DL) playback • MP3, JPEG, DivX and WMA multisession playback with navigation display
• Picture CD (such as JPEG) playback with thumbnail display
• JPEG/MP3 simultaneous playback for slide show
• PAL/NTSC conversion

The DVD-S657 rear panel offers optical and coaxial digital audio outputs, component video output, 5.1-channel audio output, mixed 2-channel audio output, and S-Video and composite video output terminals.

DVD Players		DVD-S2500	DVD-S1500	DVD-C750	DVD-S657	DV-S5860 †
Super Audio CD Playback		Yes	Yes	Yes	Yes	Yes
DVD-Audio Playback		Yes	Yes	Yes	Yes	Yes
SVCD/VCD Playback		Yes	Yes	Yes	Yes	Yes
MP3 Playback		Multisession	Multisession	Multisession	Multisession	Multisession
JPEG Playback		Multisession	Multisession	Multisession	Multisession	Multisession
DivX Playback				Multisession	Multisession	Multisession
WMA Playback				Multisession	Multisession	Multisession
DVD+R DL Playback					Yes	Yes
VR Format Recorded DVD-RW Playback					Yes	Yes
Picture CD Playback		Yes		Yes	Yes	Yes
Video D/A Converter		216 MHz/12-bit	108 MHz/12-bit	108 MHz/12-bit	108 MHz/12-bit	108 MHz/12-bit
Audio D/A Converter		192 kHz/24-bit	192 kHz/24-bit	192 kHz/24-bit	192 kHz/24-bit	192 kHz/24-bit
Signal-to-Noise Ratio	(CD)	115 dB	115 dB	105 dB	110 dB	105 dB
Frequency Response	(CD/VCD)	2 Hz-20 kHz	2 Hz-20 kHz	2 Hz-20 kHz	2 Hz-20 kHz	2 Hz-20 kHz
	(DVD 96 kHz sampling)	2 Hz-44 kHz	2 Hz-44 kHz	2 Hz-44 kHz	2 Hz-44 kHz	2 Hz-44 kHz
Dynamic Range	(DVD 48 kHz, 24 Bit)	107 dB	107 dB	95 dB	100 dB	95 dB
Harmonic Distortion + Noise	(1 kHz)	0.0017%	0.0017%	0.003%	0.003%	0.003%
Dimensions	(W x H x D)	435 x 100 x 314 mm	435 x 55 x 315 mm	435 x 75 x 425 mm	435 x 51 x 310 mm	435 x 51 x 310 mm
Weight		5.6 kg	3.2 kg	5.5 kg	2.8 kg	2.8 kg

† DV-S5860 is a available only for YHT system series and available in Australia. This product product description is on p.35.

• DVD Players are only available in Australia and New Zealand.

* Only compatible with discs that have been finalised when recording is completed. Some discs may not play due to disc characteristics or recording conditions. ** Only compatible with discs that have been recorded in CD-DA format or Video CD format and Super Video CD format. *** Some MP3, JPEG, DivX or WMA discs may not play due to disc characteristics or recording conditions.

Digital Home Theatre Speakers

A wide range of speakers for every type of home theatre system

As high-quality home theatres have become more popular, Yamaha has created high-performance speakers to match. These speakers are characterised by their robustness and dynamism in the reproduction of the current multi-channel sound standard and offer the music lover a pleasant musical sound. Thanks to its own patented technologies, such as Advanced YST or QD Bass, Yamaha subwoofers offer powerful and precise bass reproduction from robust housings with compact dimensions.

PMD Cone Woofer Uses Advanced Technology and Materials (515 PMD, 225 PMD and PMD Series)

Digital Home Cinema Speakers feature a unique Polymer-injected Mica Diaphragm (PMD). The diaphragm is composed of 30% top-quality white Indian Pearl Mica, chosen for the amazing contribution it makes to sound quality. In order to maximise its distinctive qualities, absolutely no colouring is added to the material, and the cone's shape, produced by injection moulding, is a natural catenary curve. Extremely lightweight, it achieves good stiffness along with ideal internal loss and a high modules of elasticity.

Microscopic View of Polymer-Injected Mica.

WSD Cone Midrange and Woofer (HX Series)

Yamaha's White Spruce Diaphragm (WSD) material emerged from an intensive search for a light, tough diaphragm material that would help us achieve ideal home cinema sound. The pulp material used for the WSD is manufactured almost entirely from long fibres of Canadian evergreen white spruce, the world's lightest single-sheet diaphragm material.

Waveguide Horn (HX Series and EF Series)

When conventional direct radiating speakers are used in a home environment, their broad directional characteristics result in a relatively high proportion of reflected sound. Modern movie theatres, however, are designed to offer a highly absorptive acoustic environment in which soundtrack recordings with five or more channels can be used to achieve a rich sense of spatial expression. To achieve a similar level of spatial expression at home, it is therefore necessary to use speakers with a direct/reflected sound ratio that is quite different from the speakers used for conventional music recordings.

Waveguide Horn (NS-8HX)

All-Aluminium Dome Tweeters and Diffusers (HX Series and 515 PMD Series)

Both the shape and material used for dome tweeter diaphragms and diffusers were refined to improve speed and response. 30µm pure aluminium film was formed into a new dome shape and fitted with an all-aluminium diffuser for wide-ranging 50kHz sound reproduction capability.

3cm Aluminium-Magnesium Dome Tweeter with DC-Diaphragm™ (225 PMD Series)

The high-performance tweeter features a dome made of an aluminium-magnesium alloy, with a DC-Diaphragm™ (integrated diaphragm and voice coil). The tweeter is extremely light to minimise loss yet is highly durable. It is capable of reproduction all the way up to 50kHz, which is rare for a 3cm dome tweeter. Highs are crisp and clear even at high power levels.

QD-Bass Technology

QD-Bass (Quatre Dispersion Bass) technology uses down-firing drivers with square, pyramid-shaped reflective plates to radiate the sound efficiently in four horizontal directions. The reflective plates negate any effects caused by the floor surface and reduce resonance between sound waves reflected from the floor and the unit.

Advanced YST

Advanced Yamaha Active Servo Technology (Advanced YST) is a unique system in which the speaker and amplifier work together to cancel out impedance so the speaker unit has a perfectly linear motion. Advanced YST helps to ensure the highest levels of sound pressure and overall performance.

Advanced YST II

In Advanced YST II, an Advanced Negative Impedance Converter enables the speaker cone to be driven with even tighter control. The result is more stable and accurate low range response, as well as higher sound pressure levels, for more natural and energetic bass reproduction.

How Yamaha achieves our "ideal" sound.

The key to achieving the purest, most natural, and most pleasing sound is balance. Balance among the above three elements, balance among all the components that make up the speaker, and balance among subjective listening judgments.

Testing and More Testing

Yamaha tests speakers in various ways, both before and after production. Each part of the speaker, be it a coil, a capacitor, or a cabinet, is selected out of many alternatives, which may be tested for months before a decision is made. In the case of cabinets, for example, we often build 50 to 60 cabinets and test each one. In order to test many cabinets with many drivers in many configurations, we begin with computer simulations, then move to actual prototypes for measuring a myriad of factors, such as the variations of standing waves inside the cabinet. An anechoic chamber is used to obtain precise acoustic data on pre-production models. Even speaker finishes are rigorously tested for durability and how they influence the sound. We have an environmental room where speakers are tested for 500 hours in Amazon rain forest conditions, and five different listening rooms, where speakers are carefully evaluated reproducing a variety of music and movie sources.

The Final Judgment

Throughout the design process and especially in the final phase, our most important test equipments are the ears of our speaker experts. Having hard data is helpful, but deciding which cabinet sounds "better" and whether the speaker meets Yamaha's high standards can only be done by the "golden ears" of Yamaha speaker designers who have dedicated their lives to the pursuit of beautiful, natural sound.

1. Many cabinets are built and tested for each speaker series.
2. A testing room that simulates an actual listening room.
3. A wide range of parameters are tested.
4. Speakers undergo harsh environmental testing.

HX Series Home Theatre Reference Speaker Systems

We developed the HX Series as a home theatre reference speaker system worthy of the Yamaha name. With a Waveguide horn for superior spatial expression, light and stiff white spruce diaphragms (WSD), 3-way mitered cabinets and more, these are the ultimate choice for top quality home theatre enjoyment.

NS-8HX
3-Way Dual Woofer Bass-Reflex Speaker System

NS-6HX
3-Way Bass-Reflex Speaker System

NS-4HX
2-Way Dual Woofer Bass-Reflex Speaker System

NS-2HX
2-Way Bass-Reflex Speaker System

NS-C7HX
2-Way Dual Woofer Acoustic Suspension Centre Speaker System

NS-C5HX
2-Way Dual Woofer Acoustic Suspension Centre Speaker System

515 PMD Series Home Theatre Speaker Systems

515 PMD Series speakers are designed to bring out the full potential of high-performance digital sound sources. They use PMD (Polymer-injected Mica Diaphragm) cone woofers, aluminium dome tweeters and other high quality parts to achieve sensitive response. They will also look impressive in any home theatre room.

The YST-SW515 is designed to acoustically match the speakers in the 515 PMD Series, and is recommended to be sold together with them (Specifications are on p.32).

NS-515F
3-Way Bass-Reflex Speaker System

NS-M515
2-Way Bass-Reflex Speaker System

NS-C515
2-Way Dual-Woofer Bass-Reflex Centre Speaker System

YST-SW515
Advanced YST II and QD-Bass Subwoofer

HX Series	NS-8HX	NS-6HX	NS-4HX	NS-2HX	NS-C7HX	NS-C5HX
Woofers	Dual 20cm WSD cone	20cm WSD cone	Dual 13cm WSD cone	13cm WSD cone	Dual 13cm WSD cone	Dual 13cm WSD cone
Midrange Driver	13cm WSD cone with Waveguide horn	13cm WSD cone with Waveguide horn				
Tweeter	3cm aluminium dome with Waveguide horn	3cm aluminium dome with Waveguide horn	3cm aluminium dome with Waveguide horn	3cm aluminium dome with Waveguide horn	3cm aluminium dome with Waveguide horn	3cm aluminium dome with Waveguide horn
Magnetic Shielding	Yes	Yes	Yes	Yes	Yes	Yes
Input Power (Max/Nominal)	400 W/140 W	300 W/100 W	300 W/100 W	200 W/60 W	300 W/100 W	300 W/100 W
Sensitivity	92 dB/2.83 V/1 m	91 dB/2.83 V/1 m	91 dB/2.83 V/1 m	90 dB/2.83 V/1 m	91 dB/2.83 V/1 m	91 dB/2.83 V/1 m
Frequency Response	35 Hz–50 kHz	45 Hz–50 kHz	55 Hz–50 kHz	60 Hz–50 kHz	45 Hz–50 kHz	55 Hz–50 kHz
Impedance	6 ohms	6 ohms	6 ohms	6 ohms	6 ohms	6 ohms
Dimensions (W x H x D)	364 x 1,102 x 397 mm	364 x 1,062 x 397 mm	186 x 500 x 257 mm	186 x 318 x 189 mm	549 x 217 x 318 mm	500 x 186 x 257 mm
Weight	32.5 kg/unit	30.5 kg/unit	11.5 kg/unit	6 kg/unit	15 kg	11.5 kg

515 PDM Series	NS-515F	NS-M515	NS-C515
Woofers	16cm PMD LF cone and16cm PMD subLF cone	13cm PMD cone	Dual 13cm PMD cone
Tweeter	3cm aluminium dome	3cm aluminium dome	3cm aluminium dome
Magnetic Shielding	Yes	Yes	Yes
Gold-Plated Speaker Terminals	Yes	Yes	Yes
Bi-Wiring Connection Capability	Yes		Yes
Round-Shaped Bass Anchor	Yes		
Input Power (Max/Nominal)	300 W/100 W	200 W/60 W	300 W/100 W
Frequency Response	40 Hz–50 kHz	60 Hz–50 kHz	57 Hz–50 kHz
Sensitivity	90 dB/2.83 V/1 m	89 dB/2.83 V/1 m	90 dB/2.83 V/1 m
Impedance	6 ohms	6 ohms	6 ohms
Dimensions (W x H x D)	200 x 1,000 x 328 mm	180 x 333 x 184 mm	500 x 170 x 218 mm
Weight	21 kg/unit	5 kg/unit	8 kg

EF Series Home Theatre Speaker Systems

High performance speakers designed for home theatre systems. The EF (Elliptical Form) Series feature Waveguide horns, PMD (Polymer-injected Mica Diaphragm) woofers and highest quality internal Monster Cable wiring for total enjoyment of digital movie sound and music sources, plus elegant Yamaha traditional piano finish cabinets.

NS-777
3-Way, 4-Speaker Bass-Reflex Speaker System

NS-555
3-Way, 4-Speaker Bass-Reflex Speaker System

NS-333
2-Way Bass-Reflex Speaker System

NS-C444
2-Way Acoustic Suspension Centre Channel Speaker System

225 PMD Series Home Theatre Speaker Systems

These slim, high-performance speaker systems are exactly what today's home theatre enthusiasts are looking for. Their luxurious open pore finish is matched by powerful, accurate sound reproduction from PMD cone woofers and aluminium-magnesium dome tweeters with DC-Diaphram™ (integrated diaphragm and voice coil).

The YST-SW225 is designed to acoustically match the speakers in the 225 PMD Series, and is recommended to be sold together with them (Specifications are on p.32).

NS-225F
2-Way Bass-Reflex Speaker System
• Birch finish available for YHT-640 (see p.33)

NS-M225
2-Way Acoustic Suspension Speaker System
• Birch finish available for YHT-640 (see p.33)

NS-C225
2-Way Dual-Woofer Acoustic Suspension Centre Speaker System
• Birch finish available for YHT-640 (see p.33)

YST-SW225
Advanced YST II and QD-Bass Subwoofer
• Birch finish available for YHT-640 (see p.33)

EF Series	NS-777	NS-555	NS-333	NS-C444
Woofers	Dual 20cm PMD cone	Dual 16cm PMD cone	13cm PMD cone	Dual 13cm PMD cone
Midrange Driver	13cm cone with Waveguide horn	13cm cone with Waveguide horn		
Tweeter	2.5cm aluminium dome with Waveguide horn	2.5cm aluminium dome with Waveguide horn	2.5cm aluminium dome with Waveguide horn	2.5cm aluminium dome with Waveguide horn
Magnetic Shielding	Yes	Yes	Yes	Yes
Bi-Wiring Connectivity	Yes	Yes		
Input Power (Max/Nominal)	250 W/100 W	250 W/100 W	150 W/60 W	250 W/100 W
Frequency Response	30 Hz–35 kHz	35 Hz–35 kHz	60 Hz–35 kHz	55 Hz–35 kHz
Sensitivity	89 dB/2.83 V/1 m	88 dB/2.83 V/1 m	87 dB/2.83 V/1 m	89 dB/2.83 V/1 m
Impedance	6 ohms	6 ohms	6 ohms	6 ohms
Dimensions (W x H x D)	276 x 1,100 x 390 mm	222 x 980 x 345 mm	200 x 320 x 213 mm	514 x 190 x 213 mm
Weight	24.4 kg/unit	20 kg/unit	5.5 kg/unit	7.3 kg

225 PDM Series	NS-225F	NS-M225	NS-C225	
Woofers	Dual 8cm PMD cone	Quad 6.5cm PMD cone	Dual 8cm PMD cone	
Tweeter	3cm aluminium-magnesium dome	3cm aluminium-magnesium dome	3cm aluminium-magnesium dome	
Magnetic Shielding	Yes	Yes	Yes	
Twin Bass Reflex Ports	Yes			
Round-Shaped Bass Anchor	Yes			
Luxurious Real Wood, Open Pore Finish	Yes	Yes	Yes	
Input Power (Max/Nominal)	120 W/40 W	120 W/40 W	120 W/40 W	
Frequency Response	60 Hz–50 kHz	65 Hz–50 kHz	65 Hz–50 kHz	
Sensitivity	86 dB/2.83 V/1 m	86 dB/2.83 V/1 m	86 dB/2.83 V/1 m	
Impedance	6 ohms	6 ohms	6 ohms	
Dimensions (W x H x D)	230 x 1,050 x 236 mm	107 x 360 x 134 mm	440 x 94 x 133 mm	
Weight	7.7 kg/unit	2.4 kg/unit	2.8 kg	

125 Series Home Theatre Speaker Systems

Consisting of two front tower speakers, two surround speakers and a centre speaker, the 125 Series sports thin styling to match flat TVs and plasma displays. Excellent sound quality is assured through the use of dual 8cm white cone woofers and a 2.2cm balanced dome tweeter, along with twin bass reflex ports in the tower speakers.

NS-125F
2-Way Bass-Reflex Tower Speaker System
• Black finish available

NS-P125
Centre and Surround Speaker System
• Black finish available

HT Series Home Theatre Speaker Systems

To meet varied system requirements, Yamaha has developed a variety of speakers. Your Yamaha dealer can recommend the ideal speakers to bring out the full potential of your home theatre system and stereo system.

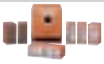
NS-70
3-Way, 4-Speaker Bass-Reflex Tower Speaker System

NS-50F
2-Way, 3-Speaker Bass-Reflex Tower Speaker System
• Cherry finish available for YHT-540C only (See. p.34)

Speaker Packages

Here's a quick way to great home theatre enjoyment — buy all your speakers in one package. You get speakers that are perfectly matched for design and acoustics, at a very reasonable price! And if you already have front speakers and a subwoofer, the NS-P70 is a handy choice.

NS-P436
Digital Home Theatre 6.1-Channel Speaker Package (High Gloss Piano Finish)
• Cherry finish available for YHT-340C (see p.34)



NS-P336
Digital Home Theatre 6.1-Channel Speaker Package
• Silver finish available for YHT-330S only (See. p.35)

NS-P70
Centre, Surround and Surround Back Speaker Package for 6.1-Channel System
• Cherry finish available for YHT-540C (see p.34)

Speaker Stands

SPS-200
Optional Speaker Stands for NS-P336/YHT-330S
• 250 mmϕ (base), 840 mm (height) • 2.6 kg

SPS-80
Optional Speaker Stands for YHT-230S/165
• 300 mmϕ (base), 650-900 mm (height)
• 1.9 kg

SPS-10MMS (Silver)
Optional Speaker Stands for NS-P436/YHT-340
• 300 x 300 mm (base), 618 – 868 mm (height)
• Cherry Finish available

125 series	NS-125F	NS-M125	NS-C125 (Centre)
Woofers	Dual 8cm white cone	Dual 8cm white cone	Dual 8cm white cone
Tweeter	2.2cm balanced-dome	2.2cm balanced-dome	2.2cm balanced-dome
Magnetic Shielding	Yes	Yes	Yes
Frequency Response	60 Hz–35 kHz	70 Hz–35 kHz	70 Hz–35 kHz
Sensitivity	86 dB/2.83 V/1 m	86 dB/2.83 V/1 m	86 dB/2.83 V/1 m
Input Power (Max/Nom)	120 W/40 W	120 W/40 W	120 W/40 W
Impedance	6 ohms	6 ohms	6 ohms
Dimensions (W x H x D)	236 x 1,050 x 236 mm	105 x 340 x 133 mm	340 x 105 x 132 mm
Weight	7.2 kg/unit	2 kg/unit	2 kg

HT series	NS-70	NS-50E	
Woofers	Dual 20cm cone	Dual 16cm cone	
Midrange Driver	10cm cone		
Tweeter	2.5cm dome	3cm dome	
Magnetic Shielding		Yes	
Input Power (Max/Nom)	280 W/80 W	240 W/80 W	
Frequency Response	38 Hz–20 kHz	35 Hz–35 kHz	
Sensitivity	90 dB/W/1 m	90 dB/2.83 V/1 m	
Dimensions (W x H x D)	245 x 950 x 314 mm	233 x 880 x 271 mm	
Weight	15 kg/unit	12.5 kg/unit	

Speaker Packages	NS-P436	NS-P336	NS-P70
System			
Frequency Response	30 Hz–60 kHz	30 Hz–25 kHz	70 Hz–30 kHz
Magnetic Shielding	All speakers	All speakers	
	5 satellites	5 satellites	2 satellites
Centre Speaker	2-way acoustic suspension	2-way acoustic suspension	2-way acoustic suspension
Input Power (Max/Nom)	100 W/30 W	100 W/30 W	180 W/60 W
Dimensions (W x H x D)	273 x 81 x 147 mm	300 x 72 x 81 mm	465 x 135 x 174 mm
Weight	1.7 kg	1.1 kg	3.5 kg
Satellite Speakers	2-way acoustic suspension	2-way acoustic suspension	2-way acoustic suspension
Input Power (Max/Nom)	100 W/30 W	100 W/30 W	150 W/50 W
Dimensions (W x H x D)	87 x 184 x 147 mm	72 x 230 x 81 mm	150 x 265 x 156 mm
Weight	1.2 kg/unit	1 kg/unit	2.3 kg/unit
Subwoofer	Advanced YST and QD-Bass technology	Advanced YST and QD-Bass technology	
Output Power	120 W	140 W	
Dimensions (W x H x D)	280 x 325 x 320 mm	232 x 415 x 388 mm	
Weight	9.2 kg	9.6 kg	

Subwoofers A Must for Home Theatre

Yamaha subwoofers use sophisticated technologies such as QD-Bass (Quatre Dispersion Bass, down-firing drivers that radiate the sound in four directions) and Advanced YST (Yamaha Active Servo Technology) to ensure the highest levels of sound pressure and overall performance.

The YST-SW515 and YST-SW225 are designed to acoustically match the speakers in the 515 PMD Series (see p.29) and 225 PMD Series (see p.30), and are recommended to be sold together with them.

YST-SW1500

Advanced YST and QD-Bass Subwoofer

- Cherry finish available

YST-SW515

Advanced YST II and QD-Bass Subwoofer

YST-SW225

Advanced YST II and QD-Bass Subwoofer

YST-SW215

Advanced YST and QD-Bass Subwoofer

- Cherry finish available for YHT-540C (see p.34)

Subwoofers	YST-SW1500	YST-SW515	YST-SW225	YST-SW215
Advanced YST	Yes	Advanced YST II	Advanced YST II	Yes
QD-Bass Technology	Yes	Yes	Yes	Yes
High-Efficiency Power Amplifier	Yes	Yes		
Drivers	30cm extra-long stroke driver with dual bias system	25cm cone	20cm cone	20cm cone
Magnetic Shielding	Yes	Yes	Yes	Yes
Linear Port for Minimising Extraneous Noise		Yes	Yes	
High Cut Filter (Continuously Variable)	40–140 Hz	40–140 Hz	40–140 Hz	40–140 Hz
Phase Control (Normal or Reverse)	Yes	Yes	Yes	Yes
Auto Standby	Yes	Yes	Yes	Yes
BASS (Bass Action Selector System)	Yes	Yes	Yes	Yes
Low Frequency Effect Input Terminal	Yes			
High Pass Filter Output Terminal	Yes			
Remote Control Unit	Yes			
Output Power	1,000 W	250 W	250 W	120 W
Frequency Response (-10 dB)	16–160 Hz	20–160 Hz	28–200 Hz	28–200 Hz
Dimensions (W x H x D)	420 x 511 x 448 mm	350 x 430 x 382 mm	290 x 350 x 349 mm	290 x 360 x 322 mm
Weight	29 kg	19 kg	11.5 kg	11.5 kg

Yamaha's Home Theatre Packages designed exclusively for the Home Theatre lovers!

An increasing number of home theatre lovers want the look, features and performance of separate components, but simply don't have the interest, time or expertise to select the proper equipment. Yamaha has the Home Theatre solutions for this growing consumer segment. Easy to set up and easy to use, Yamaha package's offer ideal choices for you that demand easy to buy, yet high performance Home Theatre systems.

The YHT systems are only available in Australia.

YHT-840BG Digital Home Theatre 7.1-Channel Package

- **Digital Home Theatre Receiver HTR-5860**
- **Digital Home Theatre Black Gloss Piano Finish Speaker Systems NS-555/NS-333/NS-C444 (More information on p.30)**
- **Advanced YST II/QD-Bass Technology Subwoofer YST-SW515 (More information on p.32)**

■ 7-Channel 665W Powerful surround sound (95W x 7) ■ Dolby Pro Logic IIx, DTS96/24 Compatibility ■ YPAO for automatically optimising the sound in your room ■ Pure Direct for 2-channel and multi-channel music enjoyment ■ Beautiful Black Gloss Piano Finish Speakers with Elegant Elliptical Form ■ Energetic Subwoofer with Advanced YST II Technology and Linear Port

YPAO Optimiser Microphone

YHT-640BH Digital Home Theatre 6.1-Channel Package

- **Digital Home Theatre Receiver HTR-5840**
- **Digital Home Theatre Speaker Systems NS-225F/NS-M225/ NS-C225 (More information on p.30)**
- **Advanced YST II/QD-Bass Technology Subwoofer YST-SW225 (More information on p.32)**

■ 6-Channel 510W Powerful Surround Sound (85W x 6) ■ Luxurious Real Wood, Slim Birch Finish Speaker Systems and Subwoofer to Deliver High Quality Sound ■ Energetic Subwoofer with Advanced YST II Technology

YHT-540C Digital Home Theatre 6.1-Channel Package

- **Digital Home Theatre Receiver HTR-5840**
- **Digital Home Theatre Speaker System NS-50F**
  (More information on p.31)
- **Digital Home Theatre Speaker Package NS-P70**
  (More information on p.31)
- **Advanced YST/QD-Bass Technology Subwoofer YST-SW215**
  (More information on p.32)

▪ 6-Channel 510W Powerful Surround Sound (85W x 6) ▪ Tower Front Speakers to Reproduce Powerful Sound ▪ Elegant Cherry Finish Speakers/Subwoofer to Match Furniture

YHT-440S Digital Home Theatre 5.1-Channel Package

- **Digital Home Theatre Receiver HTR-5830**
- **Digital Home Theatre Speaker Systems NS-125F/NS-P125**
  (More information on p.31)
- **Advanced YST/QD-Bass Technology Subwoofer YST-SW030**

▪ 5-Channel 500W Powerful Surround Sound (100W x 5)
▪ Component Video Up Conversion
▪ Tower Front Speaker System to Match Flat Screen Monitor

YHT-440B Black system available

YHT-340BG Digital Home Theatre 6.1-Channel Package

- **Digital Home Theatre Receiver HTR-5840**
- **Digital Home Theatre Speaker Package NS-P436**
  (More information on p.31)

▪ 6-Channel 510W Powerful Surround Sound (85W x 6)
▪ Audio Delay for Adjusting Lip-Sync (0-160ms)
▪ Elegant Black Gloss Piano Finish Speaker Package

YHT-340C Cherry system available

YHT-330S Digital Home Theatre 6.1-Channel Package

- **Digital Home Theatre Receiver HTR-5840**
- **Digital Home Theatre Speaker Package NS-P336**
  (More information on p.31)

- 6-Channel 510W Powerful Surround Sound (85W x 6)
- High Quality Compact Speaker Package to Deliver Energetic Sound
- Ideal System for Movies and Music

YHT-230S Digital Home Theatre 6.1-Channel Package

- **Digital Home Theatre Receiver HTR-5840**
- **Digital Home Theatre Speaker Package NS-P116**

- 6-Channel 510W Powerful Surround Sound (85W x 6)
- Yamaha Exclusive Quad-Field CINEMA DSP
- Night Listening Enhancer

YHT-165 Digital Home Theatre 5.1-Channel Package

- **Digital Home Theatre Receiver HTR-5830**
- **Digital Home Theatre Speaker Package NS-P110**

- 5-Channel 500W Powerful Surround Sound (100W x 5)
- DTS-ES, Dolby Digital and Dolby Pro Logic II Decoding
- 14 Surround Programmes

Optional DVD Player for YHT Systems

DV-S5860 DVD Player

Exceptionally good image with outstanding picture and sound quality, DVD-Audio/Super Audio CD playback.
• Progressive Scan (PAL/NTSC) • 108MHz/12-bit video DAC • DVD-Audio/Super Audio CD playback • CD upsampling • 192kHz/24-bit audio DAC • Audio Direct • Versatile format and disc compatibility such as VR format recorded DVD-RW (with CPRM) and DVD+R Double Layer (DL) playback • MP3, JPEG, DivX and WMA multisession playback with navigation display • Picture CD (such as JPEG) playback with thumbnail display • JPEG/MP3 simultaneous playback for slide show
• PAL/NTSC conversion
[Specifications are on p.27.]

YHT System Series Comparison — YHT system series are only available in Australia.

	YHT-840BG	YHT-640BH	YHT-540C	YHT-440S/YHT-440B	YHT-340BG/YHT-340C	YHT-330S	YHT-230S	YHT-165
High Sound Quality								
Channels	7.1	6.1	6.1	5.1	6.1	6.1	6.1	5.1
Discrete Amp Configuration	■	■	■		■	■	■	
Digital ToP-ART and High Current Amplification	■	■	■		■	■	■	
192kHz/24-Bit D/A Converter	■	■	■	■	■	■	■	■
Accurate Touch Volume Control	■							
Pure Direct	■							
Direct Stereo		■	■		■	■	■	
Subwoofer Cutoff Frequency / Subwoofer Phase Select	9-step	9-step	9-step		9-step	9-step	9-step	
High Dynamic Power	■	■	■	■	■	■	■	■
Linear Damping	■	■	■		■	■	■	
Analogue Mixdown	■	■	■	■	■	■	■	■
Surround Realism								
Surround Programme	14	14	14	14	14	14	14	14
Quad-Field CINEMA DSP	■	■	■	■ (Matrix 6.1)	■	■	■	■ (Matrix 6.1)
Dolby Digital EX/DTS-ES	■	■	■		■	■	■	
Dolby Pro Logic IIx	■	■	■	Dolby Pro Logic II	■	■	■	Dolby Pro Logic II
DTS 96/24	■	■	■		■	■	■	
DTS Neo:6	■	■	■		■	■	■	
Audio Delay for Adjusting Lip-Sync (0–160 ms)	■	■	■		■	■	■	
Night Listening Enhancer	■	■	■	Night Listening Mode	■	■	■	Night Listening Mode
Dialogue Lift	■							
SILENT CINEMA	■	■	■	■	■	■	■	■
5-Band Centre Graphic Equaliser	■	■	■	■	■	■	■	■
Advanced Facilities								
YPAO for Automatic Optimisation	■							
On-Screen Display	■							
Custom Installation Compatibility	■							
Speaker A, B, A+B Selection	■	■	■	Speaker A or B	■	■	■	Speaker A or B
9-Channel Speaker Outputs with Zone 2 Speaker Out	■							
Multi-Channel External Decoder Input	8-channel	6-channel	6-channel	6-channel	6-channel	6-channel	6-channel	6-channel
Preout Terminals	7 (2F/C/2S/2SB)							
Subwoofer Out	■	■	■	■	■	■	■	■
Front Panel Video Aux Terminals	■ (With optical/S-Video)	■	■		■	■	■	
Preset Remote Control Unit	■	■	■	■	■	■	■	■
High Picture Quality								
Component Video Up Conversion	■							
HDTV (720p/1080i) Compatibility	■	■	■	■	■	■	■	■
Wide-Range Video Bandwidth (60MHz -3 dB)	■	■	■	■	■	■	■	■
Component Video Inputs/Outputs	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Video (S-Video) Inputs	5 (5)	4 (3)	4 (3)	4 (0)	4 (3)	4 (3)	4 (3)	4 (0)
Video (S-Video) Outputs (except monitor out)	2 (2)	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)	1 (1)
Digital Inputs (Optical/Coaxial)	6 (4/2)	4 (3/1)	4 (3/1)	3 (2/1)	4 (3/1)	4 (3/1)	4 (3/1)	3 (2/1)
Digital Outputs (Optical)	1							
Receiver Specifications								
Minimum RMS Output Power (8 ohms, 20 Hz–20 kHz)	(0.06% THD)	(0.09% THD)	(0.09% THD)	(6 ohms, 0.9% THD)	(0.09% THD)	(0.09% THD)	(0.09% THD)	(6 ohms, 0.9% THD)
Front Channels	95 W + 95 W	85 W + 85 W	85 W + 85 W	100 W + 100 W	85 W + 85 W	85 W + 85 W	85 W + 85 W	100 W + 100 W
Centre Channel	95 W	85 W	85 W	100 W	85 W	85 W	85 W	100 W
Surround Channels	95 W + 95 W	85 W + 85 W	85 W + 85 W	100 W + 100 W	85 W + 85 W	85 W + 85 W	85 W + 85 W	100 W + 100 W
Surround Back Channels	95 W + 95 W	85 W	85 W		85 W	85 W	85 W	
Dynamic Power/Channel (8/6/4/2 ohms)	130/165/195/240 W	115/150/185/230 W	115/150/185/230 W	–/105/135/165 W	115/150/185/230 W	115/150/185/230 W	115/150/185/230 W	–/105/135/165 W
Damping Factor (8 ohms, 20 Hz–20 kHz)	120 (speaker A)	120 (speaker A)	120 (speaker A)		120 (speaker A)	120 (speaker A)	120 (speaker A)	
Frequency Response	10 Hz–100 kHz +0, -3 dB	10 Hz–100 kHz +0, -3 dB	10 Hz–100 kHz +0, -3 dB	10 Hz–100 kHz +0, -3 dB	10 Hz–100 kHz +0, -3 dB	10 Hz–100 kHz +0, -3 dB	10 Hz–100 kHz +0, -3 dB	10 Hz–100 kHz +0, -3 dB
Total Harmonic Distortion (20 Hz–20 kHz, CD)	0.06% (8 ohms)	0.06% (8 ohms)	0.06% (8 ohms)	0.06% (6 ohms)	0.06% (8 ohms)	0.06% (8 ohms)	0.06% (8 ohms)	0.06% (6 ohms)
Signal-to-Noise Ratio (CD, 250 mV)	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB
Monitor Out Frequency Response (Component Video Signal)	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB	5 Hz–60 MHz -3 dB
Dimensions (W x H x D, mm)	435 x 171 x 420	435 x 161 x 416	435 x 161 x 416	435 x 151 x 315	435 x 161 x 416	435 x 161 x 416	435 x 161 x 416	435 x 151 x 315
Weight	12.5 kg	11 kg	11 kg	9 kg	11 kg	11 kg	11 kg	9 kg
Speakers								
Front Speakers (Woofer)	Dual 20cm PMD	Dual 8cm PMD	Dual 16cm	Dual 8cm	Coaxial (5cm+1.3cm)	Dual 5cm	Dual 5cm full-range	Dual 5cm full-range
(Midrange)	13cm cone							
(Tweeter)	2.5cm dome	3cm dome	3cm dome	2.2cm balanced-dome	5cm cone	2.5cm balanced-dome		
Centre Speaker (Woofer)	Dual 13cm PMD	Quad 6.5cm PMD	10cm cone	Dual 8cm cone	Coaxial (5cm+1.3cm)	Dual 5cm	Dual 5cm full-range	Dual 5cm full-range
(Tweeter)	2.5cm dome	3cm dome	2.2cm dome	2.2cm balanced-dome	5cm cone	2.5cm balanced-dome		
Surround Speakers (Woofer)	13cm PMD	Dual 8cm PMD	10cm cone	Dual 8cm cone	Coaxial (5cm+1.3cm)	Dual 5cm	Dual 5cm full-range	Dual 5cm full-range
(Tweeter)	2.5cm dome	3cm dome	2.2cm dome	2.2cm balanced-dome	5cm cone	2.5cm balanced-dome		
Subwoofer Output Power	250W	250W	150W	130W	120W	140W	100W	100W
Subwoofer Driver	25cm	20cm	20cm	20cm	16cm	20cm	16cm	16cm

Slim-Line Components

Presenting the home theatre systems that will impress your friends even when the power is off.

When the power is on, you'll enjoy movies and music with surround sound that is unrivalled for a realistic sense of presence and overall depth and clarity. When it's off, you'll be proud to own a system that sets the standard for contemporary design elegance.

RX-SL100 Digital Home Theatre Receiver

CINEMA DSP DIGITAL · SILENT™ CINEMA · DOLBY DIGITAL EX PRO LOGIC IIx · dts ES NEO:6

Hidden Control Panel includes headphone terminal for SILENT CINEMA enjoyment and optical digital input terminal.

GUI (Graphical User Interface) for Easy Use

Basic Menu · Speaker Size

A Slim-Line receiver whose performance is as sophisticated as its design.

• High power 100W x 6 (Max) Yamaha original digital amplifier • Convenient setup on-screen display with GUI (Graphical User Interface) • Easy setup and operation • Dolby Pro Logic IIx, Dolby Digital EX, DTS-ES Discrete 6.1, and DTS Neo:6 compatibility • Powerful 32-bit Yamaha LSI (YSS-938) for CINEMA DSP processing • 14 surround programmes plus SILENT CINEMA and Night Listening Mode

The RX-SL100 rear panel offers 2 optical and 1 coaxial digital input (fixed and assignable) , and subwoofer output terminal.

Easy Connections
Six one-touch speaker terminals are furnished in a slim space, coloured for easy connection.

DV-SL100 DVD Player

DVD VIDEO · VIDEO CD · COMPACT DISC DIGITAL VIDEO · DOLBY DIGITAL · dts DIGITAL OUT

Elegantly Slim-Line DVD Player with advanced technology and features for outstanding performance

• Progressive Scan (PAL/NTSC) • DVD-Video, SVCD, VCD, Audio CD and JPEG/MP3 (multisession) playback • DVD+RW/+R, DVD-R/-RW and CD-R/RW playback • 54MHz/12-bit video D/A conversion for high picture quality • Picture CD playback with display • Audio equaliser and 3D reverb • MP3 fast forward/rewind/special playback • Playback of discs with both JPEG and MP3 tracks • PAL/NTSC conversion

The DV-SL100 rear panel offers optical/coaxial digital audio output, mixed 2-channel audio output, composite, and S-Video and component video output terminals.

CinemaStation

www.CinemaStation.com

Home Theatre Has Evolved into An Advanced Species.

Home theatre has evolved into an advanced species, and it's called CinemaStation. These Yamaha systems bring you high-performance sound from a digital amplifier, five speakers and a subwoofer, and best of all, Yamaha's most advanced sound technology, like CINEMA DSP and YPAO. Elegantly styled, they're also supremely easy to use. CinemaStation: proof that evolution is a good thing.

Fashionably slim styling.
Unlike most package home theatre systems, CinemaStation series do not have a low-end, box-like appearance. The design team wanted to make them stylish enough to appeal to anyone who carefully chooses good-looking products for their home or apartment, and they succeeded with a slim, innovative design. Even the speakers are tastefully elegant.

Professional sound equalisation with just one microphone in 3 minutes (DVX-S150).
You just place the small microphone at the listening position and touch a button. In less than 3 minutes, the system analyses the acoustics of the room and adjusts various speaker parameters to provide the best surround sound.

One touch to the ideal surround sound.
Yamaha makes it quick and easy to select the 4 most popular surround sound programmes: Movie, Music, Sports and Game. Just touch a button on the remote control and you'll hear the sound field change as that programme takes effect.

Night Listening mode for all surround programmes
When you're listening to movies late at night and turn down the volume during loud scenes, dynamic range suffers and you may miss some dialogue and other sounds. By engaging the Night Listening mode, you can reduce the volume and still enjoy proper tonal balance and dynamic range.

SILENT CINEMA
The SILENT CINEMA mode allows private enjoyment of multi-channel music or movie sound through ordinary headphones.

Easy access to the functions you want.
The compact, well-designed remote control makes operating your system a simple matter. You have fast access to all the GUI (Graphical User Interface) on-screen menus, as well as one-touch selection of four surround programmes via the icon buttons.

Progressive Scanning (NTSC Only).
The DVX-S200 and DVX-S150 have a progressive scan processor built in and eliminate the jagged edges that generally appear in moving images when interlaced video is converted to progressive.

High performance speakers and subwoofer.
The five speakers (two front, two surround and one for the centre to handle mainly dialogue) deliver exceptionally high quality surround sound, and have a compact, stylish design. The subwoofer utilises Yamaha's Advanced YST technology to generate deep, powerful bass from a slim enclosure.

CinemaStation

This is the home theatre system you've been waiting for! Impressive performance from beautifully slim, stylish components.

[Receiver] • Powerful 32-bit Yamaha LSI (YSS-938) for CINEMA DSP processing • 12 surround programmes plus SILENT CINEMA and Night Listening Mode • Dolby Digital, DTS and Dolby Pro Logic II Compatibility • Quad-Field CINEMA DSP for enjoying formats such as Dolby Digital Matrix 6.1 and DTS-ES Matrix 6.1 • 100W x 5 digital amplifier • Component video output • 40-station FM/AM preset tuner

[DVD player] • Progressive Scan (NTSC only) • 192 kHz/24-bit audio DAC • Wide disc compatibility: SA-CD, DVD-Video, DVD+RW/+R, DVD-R/RW, Audio CD, CD-R/RW, MP3, VCD and SVCD

[Speakers] • Dual 5cm cone full-range drivers (4 satellites and centre) • Powerful 140W Advanced YST/QD-Bass subwoofer • Magnetic shielding (all speakers) • Optional speaker stands (SPS-200) available

CinemaStation DVX-S200 DVD Home Theatre System

CINEMA DSP DIGITAL · SILENT CINEMA · DOLBY DIGITAL PRO LOGIC II · DIGITAL dts SURROUND · SUPER AUDIO CD · DVD VIDEO · COMPACT disc DIGITAL VIDEO · Advanced YST · QD-Bass TECHNOLOGY

SPS-200

Optional Speaker Stands for DVX-S200
• 250 mmφ (base), 840 mm (height)
• 2.6 kg

SPS-80

Optional Speaker Stands for DVX-S150
• 300 mmφ (base), 650-900 mm (height)
• 1.9 kg

CinemaStation

The most realistic surround sound, with one-touch access and special features.

[Receiver] • YPAO: Automatically optimising the sound in your room • 4 DSP programme icon buttons on remote unit • On-screen display with GUI (Graphical User Interface) • 55W x 5 Yamaha original digital amplifier • Powerful 32-bit Yamaha LSI for CINEMA DSP processing • 12 surround programmes plus SILENT CINEMA and Night Listening Mode • Quad-Field CINEMA DSP for enjoying formats such as Dolby Digital Matrix 6.1 and DTS-ES Matrix 6.1 • Component video output • 40-station FM/AM preset tuner

[DVD player] • Progressive Scan • 192kHz/24-bit audio D/A conversion • Wide disc compatibility: DVD-Video, DVD+RW/+R, DVD-R/RW, Audio CD, CD-R/RW, VCD, SVCD, MP3 and JPEG

[Speakers] • Advanced YST and QD-Bass technology subwoofer for powerful bass response • Powerful 130W high power cube subwoofer • High-grade MDF speaker cabinets • Magnetic shielding (all speakers) • Optional speaker stands (SPS-80) available

Silver finish available

CinemaStation DVX-S150 DVD Home Theatre System

CINEMA DSP DIGITAL · SILENT CINEMA · YPAO · DOLBY DIGITAL PRO LOGIC II · DIGITAL dts SURROUND · DVD VIDEO · COMPACT disc DIGITAL VIDEO · Advanced YST

CinemaStation AVX-S20 Home Theatre System

Extremely convenient home theatre with beautiful wood paneled speakers.

• Powerful 32-bit Yamaha LSI (YSS-938) for CINEMA DSP processing • 4 DSP programme icon buttons (on front panel and remote unit) • Dolby Digital, DTS and Dolby Pro Logic II compatibility • Quad-Field CINEMA DSP for enjoying formats such as Dolby Digital EX Matrix 6.1 and DTS-ES Matrix 6.1 • 20W x 5 digital amplifier • SILENT CINEMA • High sound quality satellite speakers • 96kHz/24-bit D/A Conversion • Powerful 100W Advanced YST and QD-Bass subwoofer • Ultra-simple remote control with direct surround/centre/subwoofer volume control • Optional speaker stands (SPS-10MMC) available

The AVX-S20 has the easiest connections you've ever seen. The five speaker terminals are different colours, as are the speaker cables. You just match the colours and plug them in. The AVX-S20 rear panel also offers 1 optical digital, 1 coaxial digital, analogue A/V input, and subwoofer output terminals.

SPS-10MMC (Cherry)

Optional Speaker Stands for AVX-S20
• 300 x 300 mm (base),
618 – 868 mm (height)

CinemaStation TSS-15 Home Theatre Sound System

The TSS-15 brings you amazingly lifelike 5.1-channel CINEMA DSP sound to enhance all your entertainment choices.

• 4 DSP programme icon buttons (on front panel and remote unit) • Dolby Digital, DTS and Dolby Pro Logic II compatibility • Powerful 32-bit Yamaha LSI for CINEMA DSP processing • SILENT CINEMA and Night Listening Mode • QD-Bass technology and YST subwoofer for powerful bass response • 5cm spruce cone full-range driver (5 satellites) • Magnetic shielding allows placement near a TV (all speakers) • 5.1/Virtual switch for using either 5.1-channel system or 3.1-channel system (virtual 5.1) • Wall mountable, angle adjustable satellite speakers for optimum positioning • Extensive connections: 3 digital inputs

CinemaStation		DVX-S200	DVX-S150	AVX-S20	TSS-15
Receiver Section				**Amplifier Section**	**Amplifier Section**
Maximum Output Power	5 Channels	100 W x 5 (6 ohms, 1 kHz, 10% THD)	55 W x 5 (6 ohms, 1 kHz, 10% THD)	20 W x 5 (6 ohms, 1 kHz, 10% THD)	6 W x 5 (Total 48 W=6 W x 5 + 18 W)
	Subwoofer	140 W (5 ohms, dynamic)	100 W (5 ohms, dynamic)	100 W (5 ohms, dynamic)	18 W
DVD Player Section					
Frequency Response	(CD)	10 Hz-20 kHz	10 Hz-20 kHz		
	(DVD, 48 kHz sampling)	10 Hz-22 kHz	10 Hz-22 kHz		
	(DVD, 96 kHz sampling)	10 Hz-44 kHz	10 Hz-44 kHz		
Centre Unit Dimensions (W x H x D); Weight		360 x 80 x 361 mm; 6.5 kg	360 x 80 x 360 mm; 6 kg	210 x 67 x 271 mm; 3 kg	96 x 281 x 208 mm; 1.6 kg
Speaker Section		All speakers are magnetic shielding	All speakers are magnetic shielding	All speakers are magnetic shielding	All speakers are magnetic shielding
System Frequency Response		30 Hz-40 kHz	30 Hz-25 kHz	30 Hz-25 kHz	
[4 Satellites] Dimensions (W x H x D); Weight		72 x 230 x 81 mm; 1 kg	72 x 170 x 108 mm; 0.9 kg	81 x 184 x 141 mm; 1.1 kg	70 x 91 x 110 mm; 0.4 kg
[Centre Speaker] Dimensions (W x H x D); Weight		300 x 72 x 81 mm; 1.1 kg	300 x 72 x 105 mm; 1.1 kg	184 x 81 x 141 mm; 1.1 kg	
[Subwoofer] Dimensions (W x H x D); Weight		200 x 395 x 416 mm; 10.7 kg	200 x 365 x 375 mm; 8.4 kg	280 x 325 x 289 mm; 8.7 kg	220 x 239 x 220 mm; 3.4 kg

micro component system
PIANOCRAFT

PianoCraft: Natural Sound Enjoyment from a High Performance, Elegant System.

A lot of fine craftsmanship goes into Yamaha's world-renowned pianos, and that same dedication to sound and design excellence is behind the creation of the award-winning PianoCraft series. You have a choice of compact, high quality systems, each of which includes two speakers and the capability of adding a subwoofer.

The PianoCraft E100 System won the EISA award for Best Compact System 2000-2001. The prestigious EISA awards are chosen by media representatives from 19 European countries.

MCR-E600 Micro Component System

RX-E600 Receiver

• High power output: 40 W x 2 (RMS) • Linear Damping • High dynamic power, low-impedance drive capability • Discrete configuration amplifier • Subwoofer out • Tone controls • Versatile timer functions • 40-station preset tuning • 217 x 108 x 372 mm (W x H x D); 5.4 kg

DVD-E600 CD/DVD Player

• Progressive Scan (PAL/NTSC) • 54MHz/12-bit video DAC • Picture CD playback • MP3 navigation display • 217 x 108 x 346 mm (W x H x D); 2.5 kg

NX-E400
2-Way Bass-Reflex Speaker System

• 110W maximum input power • High gloss piano finish • 186 x 300 x 223 mm (W x H x D); 4.3 kg/unit

MCR-E300 Micro Component System

CRX-E300 CD Receiver
[RECEIVER SECTION]

• High power output: 25 W x 2 (RMS) • Linear Damping • High dynamic power, low-impedance drive capability • Discrete configuration amplifier • Subwoofer out • Tone controls • Versatile timer functions • 40-station preset tuning

[CD PLAYER SECTION]

• CD Text display • CD-R/CD-RW playback • Copy time control • Optical digital out • 217 x 168 x 312 mm (W x H x D); 5 kg

NX-E300
2-Way Bass-Reflex Speaker System

• 110W maximum input power • High gloss piano finish • 165 x 255 x 183 mm (W x H x D); 3.4 kg/unit

HDD + CD-R/RW Digital Audio Recorder

CDR-HD1500 HDD + CD-R/RW Digital Audio Recorder

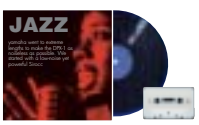
The previous CDR-HD1300E has been honoured with an EISA Award for Best Audio Recorder 2002-2003. The prestigious EISA Awards are chosen by media representatives from up to 20 European countries.

Versatile, Convenient, High Capacity Digital Recording. Ideal for a Variety of Uses Including as a High Quality Jukebox.

• Linear PCM 16-bit/44kHz recording (no compression) • 24-bit DAC/ADC • Audio Master Quality Recording mode (CD-R only) • CD–HDD–CD recording maintains full digital quality • 200GB hard disk drive capacity • Easy, extensive editing possible before recording CDs • 100 hours continuous external source recording • High-speed ripping and High-speed rec • Jog dial for fast track access • On-screen display • Synchronised rec mode • Timer rec compatibility • Title input via RS-232C interface • Time search • Copyright protection

<Main Specifications> • Frequency response: 5 Hz-20 kHz ±0.5 dB • Playback S/N ratio: 105 dB • Playback dynamic range: 99 dB • Playback THD + noise: 0.004% • Recording S/N ratio: 92 dB • Recording dynamic range: 92 dB • Recording THD + noise: 0.006% • Dimensions (W x H x D): 435 x 116 x 415 mm • Weight: 8.4 kg

Hard disk holds 300 hours of music.
Rip 300 hours of music onto the hard disk at 10x normal speed. Highest digital quality because signal is not compressed.



Record other sources, too.
Record LPs, tapes, radio and other sources — then burn them onto CD-Rs for long-term storage.

Making your own CDs is easy and fast.
When your perfectly edited music is ready to be recorded from the hard disk, transfer it at 8x normal speed to a CD-R or at 4x to a CD-RW.

Instant access to your music.
Create up to 999 "Albums," each with as many as 99 songs, on the HD. The Jog dial makes accessing tracks ultra-fast and easy.

RX-777

ToP-ART CD Direct Amplification

AM/FM Stereo Receiver

• ToP-ART• CD Direct Amplification with switch (discrete configuration) • Linear Damping • DVD-Audio/Super Audio CD ready • Gold-plated input terminals (all terminals)

AX-596

ToP-ART CD Direct Amplification

Integrated Amplifier

• ToP-ART • CD/DVD Direct Amplification with switch (discrete configuration) • DVD-Audio/Super Audio CD ready with extended frequency response • Gold-plated input terminals (all terminals)

CDX-596 CD Player

PRO-BIT

• CD-R/CD-RW playback compatibility • 3-mode CD Text display • PRO-Bit technology • Fine Sound Tuning • Digital (optical/coaxial) out

RX-596

ToP-ART CD Direct Amplification

AM/FM Stereo Receiver

• ToP-ART • CD Direct Amplification • Linear Damping • Remote controllable motor-driven input selector and volume control • I/O port for custom installation • Auto station memory

AX-396

ToP-ART CD Direct Amplification

Stereo Integrated Amplifier

• ToP-ART • Pure Direct Switch • CD/DVD Direct Amplification with switch • DVD-Audio ready with extended frequency response

CDX-396

CD Player

• CD-R/CD-RW playback compatibility • Intelligent Digital Servo • Optical digital output • Peak search • 3-mode tape edit • 40-track programme play

RX-396

AM/FM Stereo Receiver

• 3 audio inputs with tape monitor position • Linear Damping • I/O port for custom installation • 40-station preset tuning • Auto station memory

TX-492

AM/FM Stereo Tuner

• 40-station AM/FM random access preset tuning • Auto FM station memory and preset editing (auto preset tuning) • Absolute Linear Phase IF Amplifier circuitry

KX-W421

Auto-Reverse Double Cassette Deck

• Play Trim control (both decks) and high-speed Play Trim control • Dolby HX Pro Dynamic Bias Servo • 4-digit tape counters (both decks) • Two speed dubbing

Receivers/Amplifiers/Tuner	RX-777	RX-596	RX-396	AX-596	AX-396	TX-492
ToP-ART	Yes	Yes		Yes		
Min. RMS Output Power/Channel (8 ohms, 20 Hz–20 kHz)	100 W [0.019% THD]	80 W [0.025% THD]	50 W [0.04% THD]	100 W [0.015% THD]	60 W [0.019% THD]	
High Dynamic Power, Low Impedance Drive Capability	Yes	Yes	Yes	Yes	Yes	
Dynamic Power/Channel (8 ohms/4 ohms/2 ohms)	140/220/290 W	120/180/200 W	70/89/100 W	140/220/290 W	100140/150 W	
Linear Damping	Yes	Yes	Yes	Yes	Yes	
Damping Factor (8 ohms, 20 Hz–20 kHz)	240 (speaker A)	240	100	320 (speaker A)	240 (speaker A)	
Input Sensitivity/Impedance						
Phono (MM)	2.5 mV/47 k-ohms	2.5 mV/47 k-ohms	2.5 mV/47 k-ohms	2.5 mV/47 k-ohms	2.5 mV/47 k-ohms	
CD	150 mV/47 k-ohms	150 mV/47 k-ohms	150 mV/47 k-ohms	150 mV/47 k-ohms	150 mV/47 k-ohms	
Main In	1 V/30 k-ohms			1 V/30 k-ohms		
Frequency Response (CD Direct On)	20 Hz–100 kHz ±1 dB	20 Hz–20 kHz ±0.5 dB	20 Hz–20 kHz ±0.5 dB	20 Hz–100 kHz 0.5/–3 dB	20 Hz–100 kHz 0.5/–3 dB	
Signal-to-Noise Ratio (CD, IHF-A-Network)	110 dB (CD direct)	110 dB (CD direct)	108 dB	110 dB (CD direct)	110 dB (CD direct)	
Total Harmonic Distortion (CD to Sp Out)	0.012% (50 W/8 ohms)	0.01% (40 W/8 ohms)	0.02% (35 W/8 ohms)	0.008% (50 W/8 ohms)	0.008% (42.5 W/8 ohms)	
I/O Port for Custom Installation	Yes	Yes	Yes			
40-Station AM/FM Random Access Preset Tuning	Yes	Yes	Yes			Yes
Auto Preset Tuning	Yes	Yes	Yes			Yes
FM 50dB Quieting Sensitivity (Mono/Stereo)	2 µV (17.3 dBf)/25 µV (39.2 dBf)	1.55 µV (15.1 dBf)/21 µV (37.7 dBf)	2 µV (17.3 dBf)/25 µV (39.2 dBf)			1.55 µV (15.1 dBf)/21 µV (37.7 dBf)
FM Alternate Ch Selectivity	70 dB	85 dB	70 dB			85 dB
FM Signal-to-Noise Ratio (Mono/Stereo)	76 dB/70 dB	80 dB/75 dB	76 dB/70 dB			80 dB/75 dB
Dimensions (W x H x D, mm)	435 x 151 x 390	435 x 151 x 390	435 x 146 x 309	435 x 151 x 396	435 x 151 x 391	435 x 86 x 278
Weight	9.8 kg	9.5 kg	6.4 kg	10.6 kg	8.7 kg	3.2 kg

CDC-685 CD Changer

PLAYXCHANGE

• Yamaha patented PlayXchange for enjoying uninterrupted music • CD-R/CD-RW playback compatibility • 3-mode CD Text display (Title, Artist and Track) • I/O port for custom installation

CDC-585

PLAYXCHANGE

CD Changer

• Yamaha patented PlayXchange for enjoying uninterrupted music • CD-R/CD-RW playback compatibility • 3-mode CD Text display (Title, Artist and Track) • Peak search and tape edit

KX-393

Stereo Cassette Deck with Play Trim

• Auto tape tuning • Play Trim control • Dolby HX Pro Dynamic Bias Servo • MPX filter switch • Bi-directional intro scan • Memory stop

Yamaha Audio Technologies

ToP-ART

ToP-ART
(Total Purity Audio Reproduction Technology)
When processing and transmission of the audio signal is simple and direct there is less chance of it being affected by noise and distortion. Yamaha's amplifier design technology called ToP-ART features I/O (input to output) Direct Symmetrical Design, with left and right channels organised in a straight, symmetrical layout for highest signal purity.

Linear Damping
This circuit cancels the effect of level variations, maintaining a high, stable damping factor, for superior articulation of all sounds and better frequency response.

CD/DVD Direct Amplification

CD/DVD Direct Amplification Circuit
Engaged by a front panel switch, it matches CD/DVD signal levels so each stage produces less noise, resulting in improved S/N ratio and maintenance of the amp's total gain balance.

High Dynamic Power
Yamaha amplifiers are capable of delivering large amounts of reserve power for accurate reproduction of high energy peaks. This emphasises the music's dynamic qualities and provides a sharper sound image.

PLAYXCHANGE™

Enjoy Uninterrupted Music
Yamaha CD changers give you the benefits of extended playing time and direct selection from all discs. And with PlayXchange, you can change discs while the current one continues to play. You don't have to interrupt the music to change a disc and you're not limited to changing only one disc at a time.

d-cinema
Yamaha takes cinema digital.

d-cinema" is the slogan of Yamaha A/V products and technology, reflecting our focus on digital technology and our leadership in creating and refining digital home theatre.

CINEMA DSP DIGITAL

Yamaha's unique technology for the creation of sound fields is capable of powerfully reproducing the three-dimensional environment that movie sound engineers aim to convey, in any audio format from monaural to the latest 6.1-channel digital surround. It is compatible with DVD and all other A/V sources.
Yamaha CINEMA DSP technology has received a patent in the U.S. (Patent No. 5,261,005).

SILENT ™ CINEMA

"SILENT" is a trademark of Yamaha Corporation.

PLAYXCHANGE™

PlayXchange is a registered trademark in the U.S. Yamaha has received a patent for PlayXchange technology in the U.S. (Patent No. 5,115,419).

CD Players	CDX-596	CDX-396	CDC-685	CDC-585
Peak Search	Yes	Yes	Yes	
CD-Tape Synchro Rec Start	Yes	Yes	Yes	Yes
Programmable Play	40-track	40-track	40-track	40-track
Optical Digital Out	Yes	Yes	Yes	Yes
Harmonic Distortion + Noise	0.0025%	0.003%	0.003%	0.003%
Frequency Response	2 Hz–20 kHz ±0.5 dB	2 Hz–20 kHz ±0.5 dB	2 Hz–20 kHz ±0.5 dB	2 Hz–20 kHz ±0.5 dB
Signal-to-Noise Ratio	115 dB	105 dB	106 dB	106 dB
Dynamic Range	100 dB	95 dB	96 dB	96 dB
Dimensions (W x H x D)	435 x 96 x 277 mm	435 x 96 x 277 mm	435 x 116 x 404 mm	435 x 116 x 404 m
Weight	3.7 kg	3.7 kg	5.8 kg	5.8 kg

Cassette Decks		KX-W421	KX-393	
Play Trim Control		Yes (both decks)	Yes	
High-Speed Play Trim Control		Yes		
Auto Tape Tuning		Yes		
CD-Tape Synchro Rec Start		Yes	Yes	
Wow & Flutter	(W RMS/W Peak)	0.08%/±0.15%	0.07%/±0.12%	
Frequency Response	(Metal)	20 Hz–20 kHz, ±3 dB	20 Hz–19 kHz, ±3 dB	
Signal-to-Noise Ratio	(Dolby B/C NR)	66 dB/74 dB	66 dB/74 dB	
Dimensions (W x H x D)		435 x 146 x 283 mm	435 x 126 x 285 mm	
Weight		5 kg	4.4 kg	

- Dolby, Pro Logic and Double D are trademarks of Dolby Laboratories Corporation.
- DTS, DTS-ES and Neo:6 are trademarks of Digital Theater Systems, Inc.
- THX and the THX logo are registered trademarks of THX Ltd.
- Surround EX is a jointly developed technology of THX and Dolby Laboratories, Inc. and is a trademark of Dolby Laboratories, Inc.
- Burr-Brown products are trademarks of Texas Instruments, Inc.
- "DCDi" is a trademark of Faroudja, a division of Genesis Microchip Inc.
- NSV is a trademark of Analog Devices Inc.
- "i.LINK" and the "i.LINK" logo are trademarks of Sony Corporation.
- Digital Light Processing, DLP, Digital Micromirror Device and DMD are trademarks of Texas Instruments, Inc.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- G-CODE is a trademark of Gemstar Development Corporation.
- Screen images are simulated.
- Product designs and specifications are subject to change without notice.

Preset — Preset Remote Control Unit

Standard Remote Control Unit

Option — Optional Remote Control Unit

MAIN AWARDS (June 2003–Mar. 2005)

Product	Area	Publication	Issue	Recommendation
Video Projectors / Plasma Display Monitor				
DPX-1100	Germany	AudioVision	Sept. '04	audiovision Highlight
DPX-1100	UK	What HI-FI? Sound & Vision	Nov. '04	★★★★★ (in a group test)
DPX-1100	Australia	Sound & Image	'04	Projector Winner
DPX-1000	Europe	EISA	'03/'04	European High-End AV Product 2003–2004
DPX-1000	France	Son Video	Jul./Aug. '03	★★★★★
LPX-500	U.S.	E-Gear	'03	Editors' Choice Top 40 Award
LPX-500	Brazil	HOME THEATER	'04	Best LCD Projector Award
PDM-4210	Australia	Audio & Video Lifestyle Magazine	'05	2005 Best Buy Awards, Best Plasma Screen.
A/V Receivers / Amplifiers				
DSP-Z9*	Europe	EISA	'04/'05	European Home Theater High-End AV Component 2004-2005
RX-Z9	Australia	Audio & Video Lifestyle Magazine	'05	2005 Best Buy Awards, Best Home Theatre Receiver over A$2,000–3,999
RX-Z9	U.S.	Sound & Vision	'04	The Winner of Annual Reviewer's Choice Awards
RX-Z9	Australia	Sound & Image	'04	Winner: AV Amplifier/Receiver over A$4,000
DSP-Z9*	Taiwan	PRIME AV	Jan. '05	Best Performance in 2005
RX-V2500	Germany	Internet Magazine areaDVD	Jan. '05	★★★★★
RX-V2500	Germany	AudioVision	Mar. '05	Sehr gut / Preistipp
RX-V2500	Germany	streoplay	Mar. '05	HIGHLIGHT
RX-V2500	Norway	DVD & Hjemmekino	Aug. '04	Completely Control
RX-V1500	UK	What HI-FI? Sound and Vision	Dec. '04	★★★★★ (in a group test)
RX-V1500	Germany	DVD vision	Jan. '05	KAUFTIPP
RX-V1500	Germany	areaDVD	Dec. '04	★★★★★
RX-V1500	Taiwan	PRIME AV	Feb. '05	Best Recommended
RX-V750	Germany	VIDEO	Nov. '04	TEST WINNER
RX-V650	UK	What HI-FI? Sound & Vision	Nov. '04	★★★★ (in a first test)
RX-V650	Germany	AudioVideo Foto Bild	Dec. '04	Best Cost Performance (Preis-Leistungs-Sieger)
RX-V650	Germany	VIDEO	Nov. '04	TEST WINNER among 5 Models
RX-V650	Taiwan	PRIME AV	Dec. '04	Best Recommended
RX-V450	U.S.	Sound & Vision	'04	The Winner of Annual Reviewer's Choice Awards
RX-V450	Germany	AUDIO	Sept. '04	Best Buy
RX-V450	Germany	stereoplay	Dec. '04	Sehr gut
RX-V450	Taiwan	Hometheater	Feb. '05	Best Value
RX-V440	Europe	EISA	'03/'04	European Home Theater Receiver 2003–2004
RX-V450	Taiwan	Hometheater	Feb. '05	Best Value
Digital Sound Projectors				
YSP-1	Germany	stereoplay	Mar. '05	HIGHLIGHT
YSP-1	Germany	AUDIO	Mar. '05	Sehr gut
DVD Players				
DVD-S1500	Germany	AUDIO	Mar. '05	Test Winner
DVD-S1500	Sweden	HiFi Musik	Feb. '05	Pure, Elegant Sound
DVD-S550	Sweden	Hemmabio	Nov. '04	Test Winner
DVD-S550	Norway	Lyd&Bilde	Nov. '04	Superb Player
Subwoofers				
YST-SW1500	Germany	Heimkino	Aug. '03	Very Good
YST-SW315/YST-SW215	Germany	VIDEO	Aug. '03	Recommended Model: Deep Bass
Systems				
DVX-S120	Japan	HiVi	Dec. '03	No.1 in Home Theater Subcategory Surround System
DVX-S650	U.S.	TIME	'04	One of the Most Amazing inVentions of 2004
MusicCAST	U.S.	Electronic House	'03	Product of the Year
MusicCAST	U.S.	Sound & Vision	Dec. '03	Winner: Sound & Vision Reviewer's Choice Award
MusicCAST	UK	What HI-FI? Sound & Vision	Nov. '03	★★★★★
MusicCAST (MC-X1000)	Australia	Smart House Magazine	'05	Best of the Best Awards, Best Music Server
PianoCraft (MCR-E500)	Australia	Smart House Magazine	'05	Best of the Best Awards, Best Micro System
PianoCraft (RDX-E600)	Sweden	Hifi Musik	Dec. '04	Best Sound
HTiB (DSP-AX750SE+DVD)	UK	Stuff	Nov. '04	★★★★★ Hot Buy
HTiB (YHT-120+DVD)	Germany	TEST	Dec. '04	TEST WINNER
HTiB (DVD-S550/RX-V650)	UK	What HI-FI? Sound & Vision	Mar. '05	★★★★★ Supertest WINNERS
Recorders				
CDR-HD1300E	Europe	EISA	'02/'03	Best CD Recorder of '02/'03
Amplifiers				
MX-D1	Germany	stereo	Mar. '05	★★★★ Excellent

* The DSP-Z9 provides the same performance and features as the RX-Z9 except for tuner functions.

Outside Australia, availability varies by country. Please contact your local dealer.

• Australia
YAMAHA MUSIC AUSTRALIA PTY LTD
P.O. Box 268, South Melbourne VIC 3205, Australia
Phone: 1300 739 411;
Fax: 1800 333 128
http://www.yamahamusic.com.au

• New Zealand
Sound Group Holdings Ltd
Unit 3B Rothwell Avenue, Albany, Private Box 302-106, North Harbour, Albany, Auckland, New Zealand
Phone: 09 415 6680; Fax: 09 415 6683
http://www.d-cinema.co.nz

• New Caledonia
Point Hifi Sono N° 1
P.O. Box 1793 (Angle des Rues Alma-Mangin), Noumea, Nouvelle-Caledonie
Phone: 28 67 66;
Fax: 28 69 79

• Fiji
Golden Dragon Music Ltd
379-383 Victoria Pde, Suva, Fiji Islands
Phone: 302015;
Fax: 302932

• Tahiti
Comimpex S.A.
B.P. 200, Papeete, Tahiti
PK 2.8 C/Mer Auae Faaa
Phone: 82 77 59,
Fax: 83 62 85

• Papua New Guinea
Keynote Music House
P.O. Box 1192, Boroko, Papua New Guinea
Phone: 325 8049;
Fax: 325 0107

For details please contact:

Visit us at our website:
http://www.global.yamaha.com

YAMAHA

CREATING 'KANDO' TOGETHER

YAMAHA CORPORATION
P.O. Box 1, Hamamatsu, Japan

P10016827

AEN 10503 T Printed in Japan